

A. compound selected from the group consisting of: 1,2-butanediol, 2,3,3-trimethyl-; 3,4-pentanediol, 2,3-dimethyl-; 2,3-hexanediol, 4-methyl-; 2,3-hexanediol, 5-methyl-; 3,4-hexanediol, 2-methyl-; 1,2-butanediol, 2,3,3-trimethyl-; 3,4-pentanediol, 2,3-dimethyl-; 1,3-propanediol, 2-(1,1-dimethylpropyl)-; 1,3-propanediol, 2-(1,2-dimethylpropyl)-; 1,3-propanediol, 2-(2,2-dimethylpropyl)-; 1,3-butanediol, 2-(1-methylpropyl)-; 1,3-butanediol, 2-ethyl-2,3-dimethyl-; 1,3-butanediol, 2-(2-methylpropyl)-; 1,3-butanediol, 2-methyl-2-isopropyl-; 1,3-butanediol, 3-methyl-2-isopropyl-; 1,3-butanediol, 3-methyl-2-propyl-; 1,4-butanediol, 2,2-diethyl-; 1,4-butanediol, 2-methyl-2-propyl-; 1,4-butanediol, 2-(1-methylpropyl)-; 1,4-butanediol, 2-ethyl-2,3-dimethyl-; 1,4-butanediol, 2-ethyl-3,3-dimethyl-; 1,4-butanediol, 2-(2-methylpropyl)-; 1,4-pentanediol, 2,2,3-trimethyl-; 1,4-pentanediol, 2,3,3-trimethyl-; 1,5-pentanediol, 2,2,3-trimethyl-; 1,5-pentanediol, 2,3,3-trimethyl-; 1,3-pentanediol, 2-ethyl-2-methyl-; 1,4-pentanediol, 2-ethyl-2-methyl-; 1,4-pentanediol, 2-ethyl-3-methyl-; 1,4-pentanediol, 2-ethyl-4-methyl-; 1,4-pentanediol, 3-ethyl-2-methyl-; 1,4-pentanediol, 3-ethyl-3-methyl-; 1,5-pentanediol, 2-ethyl-2-methyl-; 1,5-pentanediol, 2-ethyl-4-methyl-; 2,4-pentanediol, 3-ethyl-2-methyl-; 1,3-pentanediol, 2-isopropyl-; 1,3-pentanediol, 2-propyl-; 1,4-pentanediol, 2-isopropyl-; 1,4-pentanediol, 2-propyl-; 1,4-pentanediol, 3-isopropyl-; 2,4-pentanediol, 3-propyl-; 1,3-hexanediol, 2,3-dimethyl-; 1,3-hexanediol, 2,5-dimethyl-; 1,3-hexanediol, 3,4-dimethyl-; 1,3-hexanediol, 3,5-dimethyl-; 1,3-hexanediol, 4,5-dimethyl-; 1,4-hexanediol, 2,2-dimethyl-; 1,4-hexanediol, 2,3-dimethyl-; 1,4-hexanediol, 2,4-dimethyl-; 1,4-hexanediol, 3,3-dimethyl-; 1,4-hexanediol, 3,4-dimethyl-; 1,4-hexanediol, 3,5-dimethyl-; 1,3-hexanediol, 4,4-dimethyl-; 1,4-hexanediol, 4,5-dimethyl-; 1,5-hexanediol, 2,2-dimethyl-; 1,5-hexanediol, 3,4-dimethyl-; 1,5-hexanediol, 3,5-dimethyl-; 1,5-hexanediol, 4,5-dimethyl-; 1,6-hexanediol, 2,3-dimethyl-; 1,6-hexanediol, 2,4-dimethyl-; 1,6-hexanediol, 3,3-dimethyl-; 2,4-hexanediol, 4,5-dimethyl-; 2,5-hexanediol, 2,3-dimethyl-; 2,5-hexanediol, 2,4-dimethyl-; 2,5-hexanediol, 3,3-dimethyl-; 2,6-hexanediol, 3,3-dimethyl-; 1,3-hexanediol, 4-ethyl-; 2,4-hexanediol, 3-ethyl-; 2,5-hexanediol, 3-ethyl-; 1,3-heptanediol, 4-methyl-; 1,3-heptanediol, 5-methyl-; 1,3-heptanediol, 6-methyl-; 1,5-heptanediol, 3-methyl-; 1,5-heptanediol, 4-methyl-; 1,6-heptanediol, 3-methyl-; 1,6-heptanediol, 5-methyl-; 2,4-heptanediol, 5-methyl-; 2,5-heptanediol, 3-methyl-; 3,5-heptanediol, 2-methyl-; 2,6-octanediol; 2,4-hexanediol, 3,3,4-trimethyl-; 2,4-hexanediol, 3,5,5-trimethyl-; 2,4-hexanediol, 4,5,5-trimethyl-; 2,5-hexanediol, 3,3,4-trimethyl-; 2,5-hexanediol, 3,3,5-trimethyl-;

B. ether solvent selected from the group consisting of: 1,2-propanediol, 3-(2-pentyloxy)-; 1,2-propanediol, 3-(3-pentyloxy)-; 1,2-propanediol, 3-(2-methyl-1-butyloxy)-; 1,2-propanediol, 3-(iso-amyl-1-butyloxy)-; 1,2-propanediol, 3-(3-methyl-2-butyloxy)-; 1,2-propanediol, 3-(cyclohexyloxy)-; 1,2-propanediol, 3-(1-cyclohex-1-enyloxy)-; 1,3-propanediol, 2-(pentyloxy)-; 1,3-propanediol, 2-(2-pentyloxy)-; 1,3-propanediol, 2-(3-pentyloxy)-; 1,3-propanediol, 2-(2-methyl-1-butyloxy)-; 1,3-propanediol, 2-(iso-amyl-1-butyloxy)-; 1,3-propanediol, 2-(3-methyl-2-butyloxy)-; 1,3-propanediol, 2-(cyclohexyloxy)-; 1,3-propanediol, 2-(1-cyclohex-1-enyloxy)-; 1,2-propanediol, 3-(butyloxy)-, triethoxylated; 1,2-propanediol, 3-(butyloxy)-, tetraethoxylated; 1,2-propanediol, 3-(butyloxy)-, pentaethoxylated; 1,2-propanediol, 3-(butyloxy)-, hexaethoxylated; 1,2-propanediol, 3-(butyloxy)-, heptaethoxylated; 1,2-propanediol, 3-(butyloxy)-, octaethoxylated; 1,2-propanediol, 3-(butyloxy)-, nonaethoxylated; 1,2-propanediol, 3-(butyloxy)-, monopropoxylated; 1,2-propanediol, 3-(butyloxy)-, dibutyleneoxylated; and 1,2-propanediol, 3-(butyloxy)-, tributyleneoxylated; bis(2-hydroxybutyl)ether; and bis(2-hydroxycyclopentyl)ether;

C. unsaturated compounds which are homologs, or analogs, of the following compounds in which each homolog, or analog, contains at least one additional CH₂ group and the total number of hydrogen atoms is kept the same by inserting one double bond for each additional CH₂ group:

- I. n-propanol;
- II. 2-butanol and/or 2-methyl-2-propanol;
- III. 2,3-butanediol, 2,3-dimethyl-; 1,2-butanediol, 2,3-dimethyl-; 1,2-butanediol, 3,3-dimethyl-; 2,3-pentanediol, 2-methyl-; 2,3-pentanediol, 3-methyl-; 2,3-pentanediol, 4-methyl-; 2,3-hexanediol; 3,4-hexanediol; 1,2-butanediol, 2-ethyl-; 1,2-pentanediol, 2-methyl-; 1,2-pentanediol, 3-methyl-; 1,2-pentanediol, 4-methyl-; and/or 1,2-hexanediol;
- IV. 1,3-propanediol, 2-butyl-; 1,3-propanediol, 2,2-diethyl-; 1,3-propanediol, 2-(1-methylpropyl)-; 1,3-propanediol, 2-(2-methylpropyl)-; 1,3-propanediol, 2-methyl-2-propyl-; 1,2-butanediol, 2,3,3-trimethyl-; 1,4-butanediol, 2-ethyl-2-methyl-; 1,4-butanediol, 2-ethyl-3-methyl-; 1,4-butanediol, 2-propyl-; 1,4-butanediol, 2-isopropyl-; 1,5-pentanediol, 2,2-dimethyl-; 1,5-pentanediol, 2,3-dimethyl-; 1,5-pentanediol, 2,4-dimethyl-; 1,5-pentanediol, 3,3-dimethyl-; 2,3-pentanediol, 2,3-dimethyl-; 2,3-pentanediol, 2,4-dimethyl-; 2,3-pentanediol, 3,4-dimethyl-; 2,3-pentanediol, 4,4-dimethyl-; 3,4-pentanediol, 2,3-dimethyl-; 1,5-pentanediol, 2-ethyl-; 1,6-hexanediol, 2-methyl-; 1,6-hexanediol, 3-methyl-

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; 2,3-hexanediol, 2-methyl-; 2,3-hexanediol, 3-methyl-; 2,3-hexanediol, 4-methyl-; 2,3-hexanediol, 5-methyl-; 3,4-hexanediol, 2-methyl-; 3,4-hexanediol, 3-methyl-; 1,3-heptanediol; 1,4-; heptanediol; 1,5-heptanediol; and/or 1,6-heptanediol;

- V. 1,3-propanediol, 2-(2-methylbutyl)-; 1,3-propanediol, 2-(1,1-dimethylpropyl)-; 1,3-propanediol, 2-(1,2-dimethylpropyl)-; 1,3-propanediol, 2-(1-ethylpropyl)-; 1,3-propanediol, 2-(1-methylbutyl)-; 1,3-propanediol, 2-(2,2-dimethylpropyl)-; 1,3-propanediol, 2-(3-methylbutyl)-; 1,3-propanediol, 2-butyl-2-methyl-; 1,3-propanediol, 2-ethyl-2-isopropyl-; 1,3-propanediol, 2-ethyl-2-propyl-; 1,3-propanediol, 2-methyl-2-(1-methylpropyl)-; 1,3-propanediol, 2-methyl-2-(2-methylpropyl)-; 1,3-propanediol, 2-tertiary-butyl-2-methyl-; 1,3-butanediol, 2,2-diethyl-; 1,3-butanediol, 2-(1-methylpropyl)-; 1,3-butanediol, 2-butyl-; 1,3-butanediol, 2-ethyl-2,3-dimethyl-; 1,3-butanediol, 2-(1,1-dimethylethyl)-; 1,3-butanediol, 2-(2-methylpropyl)-; 1,3-butanediol, 2-methyl-2-isopropyl-; 1,3-butanediol, 2-methyl-2-propyl-; 1,3-butanediol, 3-methyl-2-isopropyl-; 1,3-butanediol, 3-methyl-2-propyl-; 1,4-butanediol, 2,2-diethyl-; 1,4-butanediol, 2-methyl-2-propyl-; 1,4-butanediol, 2-(1-methylpropyl)-; 1,4-butanediol, 2-ethyl-2,3-dimethyl-; 1,4-butanediol, 2-ethyl-3,3-dimethyl-; 1,4-butanediol, 2-(1,1-dimethylethyl)-; 1,4-butanediol, 2-(2-methylpropyl)-; 1,4-butanediol, 2-methyl-3-propyl-; 1,4-butanediol, 3-methyl-2-isopropyl-; 1,3-pentanediol, 2,2,3-trimethyl-; 1,3-pentanediol, 2,2,4-trimethyl-; 1,3-pentanediol, 2,3,4-trimethyl-; 1,3-pentanediol, 2,4,4-trimethyl-; 1,3-pentanediol, 3,4,4-trimethyl-; 1,4-pentanediol, 2,2,3-trimethyl-; 1,4-pentanediol, 2,2,4-trimethyl-; 1,4-pentanediol, 2,3,3-trimethyl-; 1,4-pentanediol, 3,3,4-trimethyl-; 1,5-pentanediol, 2,2,3-trimethyl-; 1,5-pentanediol, 2,2,4-trimethyl-; 1,5-pentanediol, 2,3,3-trimethyl-; 1,5-pentanediol, 2,3,4-trimethyl-; 2,4-pentanediol, 2,3,3-trimethyl-; 2,4-pentanediol, 2,3,4-trimethyl-; 1,3-pentanediol, 2-ethyl-2-methyl-; 1,3-pentanediol, 2-ethyl-3-methyl-; 1,3-pentanediol, 2-ethyl-4-methyl-; 1,3-pentanediol, 3-ethyl-2-methyl-; 1,4-pentanediol, 2-ethyl-2-methyl-; 1,4-pentanediol, 2-ethyl-3-methyl-; 1,4-pentanediol, 2-ethyl-4-methyl-; 1,4-pentanediol, 3-ethyl-2-methyl-; 1,4-pentanediol, 3-ethyl-3-methyl-; 1,5-pentanediol, 2-ethyl-2-methyl-; 1,5-pentanediol, 2-ethyl-3-methyl-; 1,5-pentanediol, 2-ethyl-4-methyl-; 1,5-pentanediol, 3-ethyl-3-methyl-; 2,4-pentanediol, 3-ethyl-2-methyl-; 1,3-pentanediol, 2-isopropyl-; 1,3-pentanediol, 2-propyl-; 1,4-pentanediol, 2-isopropyl-; 1,4-pentanediol, 2-propyl-; 1,4-pentanediol, 3-isopropyl-; 1,5-

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pentanediol, 2-isopropyl-; 2,4-pentanediol, 3-propyl-; 1,3-hexanediol, 2,2-dimethyl-; 1,3-hexanediol, 2,3-dimethyl-; 1,3-hexanediol, 2,4-dimethyl-; 1,3-hexanediol, 2,5-dimethyl-; 1,3-hexanediol, 3,4-dimethyl-; 1,3-hexanediol, 3,5-dimethyl-; 1,3-hexanediol, 4,5-dimethyl-; 1,4-hexanediol, 2,2-dimethyl-; 1,4-hexanediol, 2,3-dimethyl-; 1,4-hexanediol, 2,4-dimethyl-; 1,4-hexanediol, 2,5-dimethyl-; 1,4-hexanediol, 3,3-dimethyl-; 1,4-hexanediol, 3,4-dimethyl-; 1,4-hexanediol, 3,5-dimethyl-; 1,3-hexanediol, 4,4-dimethyl-; 1,4-hexanediol, 4,5-dimethyl-; 1,4-hexanediol, 5,5-dimethyl-; 1,5-hexanediol, 2,2-dimethyl-; 1,5-hexanediol, 2,3-dimethyl-; 1,5-hexanediol, 2,4-dimethyl-; 1,5-hexanediol, 2,5-dimethyl-; 1,5-hexanediol, 3,3-dimethyl-; 1,5-hexanediol, 3,4-dimethyl-; 1,5-hexanediol, 3,5-dimethyl-; 1,5-hexanediol, 4,5-dimethyl-; 1,6-hexanediol, 2,2-dimethyl-; 1,6-hexanediol, 2,3-dimethyl-; 1,6-hexanediol, 2,4-dimethyl-; 1,6-hexanediol, 2,5-dimethyl-; 1,6-hexanediol, 3,3-dimethyl-; 1,6-hexanediol, 3,4-dimethyl-; 2,4-hexanediol, 2,3-dimethyl-; 2,4-hexanediol, 2,4-dimethyl-; 2,4-hexanediol, 2,5-dimethyl-; 2,4-hexanediol, 3,3-dimethyl-; 2,4-hexanediol, 3,4-dimethyl-; 2,4-hexanediol, 3,5-dimethyl-; 2,4-hexanediol, 4,5-dimethyl-; 2,4-hexanediol, 5,5-dimethyl-; 2,5-hexanediol, 2,3-dimethyl-; 2,5-hexanediol, 2,4-dimethyl-; 2,5-hexanediol, 2,5-dimethyl-; 2,5-hexanediol, 3,3-dimethyl-; 2,5-hexanediol, 3,4-dimethyl-; 2,6-hexanediol, 3,3-dimethyl-; 1,3-heptanediol, 2-ethyl-; 1,3-heptanediol, 4-ethyl-; 1,4-heptanediol, 2-ethyl-; 1,4-heptanediol, 4-ethyl-; 1,5-heptanediol, 2-ethyl-; 2,4-heptanediol, 3-ethyl-; 2,4-heptanediol, 4-ethyl-; 2,5-heptanediol, 3-ethyl-; 1,3-heptanediol, 2-methyl-; 1,3-heptanediol, 3-methyl-; 1,3-heptanediol, 4-methyl-; 1,3-heptanediol, 5-methyl-; 1,3-heptanediol, 6-methyl-; 1,4-heptanediol, 2-methyl-; 1,4-heptanediol, 3-methyl-; 1,4-heptanediol, 4-methyl-; 1,4-heptanediol, 5-methyl-; 1,4-heptanediol, 6-methyl-; 1,5-heptanediol, 2-methyl-; 1,5-heptanediol, 3-methyl-; 1,5-heptanediol, 4-methyl-; 1,5-heptanediol, 5-methyl-; 1,5-heptanediol, 6-methyl-; 1,6-heptanediol, 2-methyl-; 1,6-heptanediol, 3-methyl-; 1,6-heptanediol, 4-methyl-; 1,6-heptanediol, 5-methyl-; 1,6-heptanediol, 6-methyl-; 2,4-heptanediol, 2-methyl-; 2,4-heptanediol, 3-methyl-; 2,4-heptanediol, 4-methyl-; 2,4-heptanediol, 5-methyl-; 2,4-heptanediol, 6-methyl-; 2,5-heptanediol, 2-methyl-; 2,5-heptanediol, 3-methyl-; 2,5-heptanediol, 4-methyl-; 2,5-heptanediol, 5-methyl-; 2,5-heptanediol, 6-methyl-; 2,6-heptanediol, 2-methyl-; 2,6-heptanediol, 3-methyl-; 2,6-heptanediol, 4-methyl-; 3,4-heptanediol, 3-methyl-; 3,5-heptanediol, 2-methyl-; 3,5-heptanediol, 3-methyl-; 3,5-

heptanediol, 4-methyl-, 2,4-octanediol; 2,5-octanediol; 2,6-octanediol; 2,7-octanediol; 3,5-octanediol; and/or 3,6-octanediol;

VI. 2,4-pentanediol, 2,3,3,4-tetramethyl-; 2,4-pentanediol, 3-tertiarybutyl-; 2,4-hexanediol, 2,5,5-trimethyl-; 2,4-hexanediol, 3,3,4-trimethyl-; 2,4-hexanediol, 3,3,5-trimethyl-; 2,4-hexanediol, 3,5,5-trimethyl-; 2,4-hexanediol, 4,5,5-trimethyl-; 2,5-hexanediol, 3,3,4-trimethyl-; and/or 2,5-hexanediol, 3,3,5-trimethyl-;

VII. Alkoxylated derivatives of C₃₋₈ diols selected from the group consisting of:

1. 1,2-propanediol 2(Me-polyethoxy₁₋₄); 1,2-propanediol polypropoxy₄; 1,2-propanediol, 2-methyl- (Me-polyethoxy₄₋₁₀); 1,2-propanediol, 2-methyl- 2(Me-polyethoxy₁); 1,2-propanediol, 2-methyl- polypropoxy₃; 1,2-propanediol, 2-methyl- polybutoxy₁; 1,3-propanediol 2(Me-polyethoxy₆₋₈); 1,3-propanediol polypropoxy₅₋₆; 1,3-propanediol, 2,2-diethyl- polyethoxy₁₋₇; 1,3-propanediol, 2,2-diethyl- polypropoxy₁; 1,3-propanediol, 2,2-diethyl- n-polybutoxy₁₋₂; 1,3-propanediol, 2,2-dimethyl- 2(Me polyethoxy₁₋₂); 1,3-propanediol, 2,2-dimethyl- polypropoxy₃₋₄; 1,3-propanediol, 2-(1-methylpropyl)- polyethoxy₁₋₇; 1,3-propanediol, 2-(1-methylpropyl)- polypropoxy₁; 1,3-propanediol, 2-(1-methylpropyl)- n-polybutoxy₁₋₂; 1,3-propanediol, 2-(2-methylpropyl)- polyethoxy₁₋₇; 1,3-propanediol, 2-(2-methylpropyl)- polypropoxy₁; 1,3-propanediol, 2-(2-methylpropyl)- n-polybutoxy₁₋₂; 1,3-propanediol, 2-ethyl- (Me polyethoxy₆₋₁₀); 1,3-propanediol, 2-ethyl- 2(Me polyethoxy₁); 1,3-propanediol, 2-ethyl- polypropoxy₃; 1,3-propanediol, 2-ethyl-2-methyl- (Me polyethoxy₁₋₆); 1,3-propanediol, 2-ethyl-2-methyl- polypropoxy₂; 1,3-propanediol 2-ethyl-2-methyl- polybutoxy₁; 1,3-propanediol, 2-isopropyl- (Me polyethoxy₁₋₆); 1,3-propanediol, 2-isopropyl- polypropoxy₂; 1,3-propanediol, 2-isopropyl- polybutoxy₁; 1,3-propanediol, 2-methyl- 2(Me polyethoxy₂₋₅); 1,3-propanediol, 2-methyl- polypropoxy₄₋₅; 1,3-propanediol, 2-methyl- polybutoxy₂; 1,3-propanediol, 2-methyl-2-isopropyl- polyethoxy₂₋₉; 1,3-propanediol, 2-methyl-2-isopropyl- polypropoxy₁; 1,3-propanediol, 2-methyl-2-isopropyl- n-polybutoxy₁₋₃; 1,3-propanediol, 2-methyl-2-propyl- polyethoxy₁₋₇; 1,3-propanediol, 2-methyl-2-propyl- polypropoxy₁; 1,3-propanediol, 2-methyl-2-propyl- n-polybutoxy₁₋₂; 1,3-propanediol, 2-propyl- (Me polyethoxy₁₋₄); 1,3-propanediol, 2-propyl- polypropoxy₂; 1,3-propanediol, 2-propyl- polybutoxy₁;

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2. 1,2-butanediol (Me polyethoxy₂₋₈); 1,2-butanediol polypropoxy₂₋₃; 1,2-butanediol polybutoxy₁; 1,2-butanediol, 2,3-dimethyl- polyethoxy₁₋₆; 1,2-butanediol, 2,3-dimethyl- n-polybutoxy₁₋₂; 1,2-butanediol, 2-ethyl- polyethoxy₁₋₃; 1,2-butanediol, 2-ethyl- n-polybutoxy₁; 1,2-butanediol, 2-methyl- (Me polyethoxy₁₋₂); 1,2-butanediol, 2-methyl- polypropoxy₁; 1,2-butanediol, 3,3-dimethyl- polyethoxy₁₋₆; 1,2-butanediol, 3,3-dimethyl- n-polybutoxy₁₋₂; 1,2-butanediol, 3-methyl- (Me polyethoxy₁₋₂); 1,2-butanediol, 3-methyl- polypropoxy₁; 1,3-butanediol 2(Me polyethoxy₃₋₆); 1,3-butanediol polypropoxy₅; 1,3-butanediol polybutoxy₂; 1,3-butanediol, 2,2,3-trimethyl- (Me polyethoxy₁₋₃); 1,3-butanediol, 2,2,3-trimethyl- polypropoxy₁₋₂; 1,3-butanediol, 2,2-dimethyl- (Me polyethoxy₃₋₈); 1,3-butanediol, 2,2-dimethyl- polypropoxy₃; 1,3-butanediol, 2,3-dimethyl- (Me polyethoxy₃₋₈); 1,3-butanediol, 2,3-dimethyl- polypropoxy₃; 1,3-butanediol, 2-ethyl- (Me polyethoxy₁₋₆); 1,3-butanediol, 2-ethyl- polypropoxy₂₋₃; 1,3-butanediol, 2-ethyl- polybutoxy₁; 1,3-butanediol, 2-ethyl-2-methyl- (Me polyethoxy₁); 1,3-butanediol, 2-ethyl-2-methyl- polypropoxy₁; 1,3-butanediol, 2-ethyl-2-methyl- n-polybutoxy₂₋₄; 1,3-butanediol, 2-ethyl-3-methyl- (Me polyethoxy₁); 1,3-butanediol, 2-ethyl-3-methyl- polypropoxy₁; 1,3-butanediol, 2-ethyl-3-methyl- n-polybutoxy₂₋₄; 1,3-butanediol, 2-isopropyl- (Me polyethoxy₁); 1,3-butanediol, 2-isopropyl- polypropoxy₁; 1,3-butanediol, 2-isopropyl- n-polybutoxy₂₋₄; 1,3-butanediol, 2-methyl- 2(Me polyethoxy₁₋₃); 1,3-butanediol, 2-methyl- polypropoxy₄; 1,3-butanediol, 2-propyl- polyethoxy₂₋₉; 1,3-butanediol, 2-propyl- polypropoxy₁; 1,3-butanediol, 2-propyl- n-polybutoxy₁₋₃; 1,3-butanediol, 3-methyl- 2(Me polyethoxy₁₋₃); 1,3-butanediol, 3-methyl- polypropoxy₄; 1,4-butanediol 2(Me polyethoxy₂₋₄); 1,4-butanediol polypropoxy₄₋₅; 1,4-butanediol polybutoxy₂; 1,4-butanediol, 2,2,3-trimethyl- polyethoxy₂₋₉; 1,4-butanediol, 2,2,3-trimethyl- polypropoxy₁; 1,4-butanediol, 2,2,3-trimethyl- n-polybutoxy₁₋₃; 1,4-butanediol, 2,2-dimethyl- (Me polyethoxy₁₋₆); 1,4-butanediol, 2,2-dimethyl- polypropoxy₂; 1,4-butanediol, 2,2-dimethyl- polybutoxy₁; 1,4-butanediol, 2,3-dimethyl- (Me polyethoxy₁₋₆); 1,4-butanediol, 2,3-dimethyl- polypropoxy₂; 1,4-butanediol, 2,3-dimethyl- polybutoxy₁; 1,4-butanediol, 2-ethyl- (Me polyethoxy₁₋₄); 1,4-butanediol, 2-ethyl- polypropoxy₂; 1,4-butanediol, 2-ethyl- polybutoxy₁; 1,4-butanediol, 2-ethyl-2-methyl- polyethoxy₁₋₇; 1,4-butanediol, 2-ethyl-2-methyl- polypropoxy₁; 1,4-

butanediol, 2-ethyl-2-methyl- n-polybutoxy₁₋₂; 1,4-butanediol, 2-ethyl-3-methyl- polyethoxy₁₋₇; 1,4-butanediol, 2-ethyl-3-methyl- polypropoxy₁; 1,4-butanediol, 2-ethyl-3-methyl- n-polybutoxy₁₋₂; 1,4-butanediol, 2-isopropyl- polyethoxy₁₋₇; 1,4-butanediol, 2-isopropyl- polypropoxy₁; 1,4-butanediol, 2-isopropyl- n-polybutoxy₁₋₂; 1,4-butanediol, 2-methyl- (Me polyethoxy₆₋₁₀); 1,4-butanediol, 2-methyl- 2(Me polyethoxy₁); 1,4-butanediol, 2-methyl- polypropoxy₃; 1,4-butanediol, 2-methyl- polybutoxy₁; 1,4-butanediol 2-propyl- polyethoxy₁₋₅; 1,4-butanediol, 2-propyl- n-polybutoxy₁₋₂; 1,4-butanediol, 3-ethyl-1-methyl- polyethoxy₂₋₉; 1,4-butanediol, 3-ethyl-1-methyl- polypropoxy₁; 1,4-butanediol, 3-ethyl-1-methyl- n-polybutoxy₁₋₃; 2,3-butanediol (Me polyethoxy₆₋₁₀); 2,3-butanediol 2(Me polyethoxy₁); 2,3-butanediol polypropoxy₃₋₄; 2,3-butanediol polybutoxy₁; 2,3-butanediol, 2,3-dimethyl- polyethoxy₃₋₉; 2,3-butanediol, 2,3-dimethyl- polypropoxy₁; 2,3-butanediol, 2,3-dimethyl- n-polybutoxy₁₋₃; 2,3-butanediol, 2-methyl- (Me polyethoxy₁₋₅); 2,3-butanediol, 2-methyl- polypropoxy₂; 2,3-butanediol, 2-methyl- polybutoxy₁;

3. 1,2-pentanediol polyethoxy₃₋₁₀; 1,2-pentanediol, polypropoxy₁; 1,2-pentanediol, n-polybutoxy₂₋₃; 1,2-pentanediol, 2-methyl polyethoxy₁₋₃; 1,2-pentanediol, 2-methyl n-polybutoxy₁; 1,2-pentanediol, 2-methyl polybutoxy₁; 1,2-pentanediol, 3-methyl polyethoxy₁₋₃; 1,2-pentanediol, 3-methyl n-polybutoxy₁; 1,2-pentanediol, 4-methyl polyethoxy₁₋₃; 1,2-pentanediol, 4-methyl n-polybutoxy₁; 1,3-pentanediol 2(Me-polyethoxy₁₋₂); 1,3-pentanediol polypropoxy₃₋₄; 1,3-pentanediol, 2,2-dimethyl- (Me-polyethoxy₁); 1,3-pentanediol, 2,2-dimethyl- polypropoxy₁; 1,3-pentanediol, 2,2-dimethyl- n-polybutoxy₂₋₄; 1,3-pentanediol, 2,3-dimethyl- (Me-polyethoxy₁); 1,3-pentanediol, 2,3-dimethyl- polypropoxy₁; 1,3-pentanediol, 2,3-dimethyl- n-polybutoxy₂₋₄; 1,3-pentanediol, 2,4-dimethyl- (Me-polyethoxy₁); 1,3-pentanediol, 2,4-dimethyl- polypropoxy₁; 1,3-pentanediol, 2,4-dimethyl- n-polybutoxy₂₋₄; 1,3-pentanediol, 2-ethyl- polyethoxy₂₋₉; 1,3-pentanediol, 2-ethyl- polypropoxy₁; 1,3-pentanediol, 2-ethyl- n-polybutoxy₁₋₃; 1,3-pentanediol, 2-methyl- 2(Me-polyethoxy₁₋₆); 1,3-pentanediol, 2-methyl- polypropoxy₂₋₃; 1,3-pentanediol, 2-methyl- polybutoxy₁; 1,3-pentanediol, 3,4-dimethyl- (Me-polyethoxy₁); 1,3-pentanediol, 3,4-dimethyl- polypropoxy₁; 1,3-pentanediol, 3,4-dimethyl- n-polybutoxy₂₋₄; 1,3-

pentanediol, 3-methyl- (Me-polyethoxy₁₋₆); 1,3-pentanediol, 3-methyl-
polypropoxy₂₋₃; 1,3-pentanediol, 3-methyl- polybutoxy₁; 1,3-pentanediol,
4,4-dimethyl- (Me-polyethoxy₁); 1,3-pentanediol, 4,4-dimethyl-
polypropoxy₁; 1,3-pentanediol, 4,4-dimethyl- n-polybutoxy₂₋₄; 1,3-
pentanediol, 4-methyl- (Me-polyethoxy₁₋₆); 1,3-pentanediol, 4-methyl-
polypropoxy₂₋₃; 1,3-pentanediol, 4-methyl- polybutoxy₁; 1,4-pentanediol,
2(Me-polyethoxy₁₋₂); 1,4-pentanediol polypropoxy₃₋₄; 1,4-pentanediol,
2,2-dimethyl- (Me-polyethoxy₁); 1,4-pentanediol, 2,2-dimethyl-
polypropoxy₁; 1,4-pentanediol, 2,2-dimethyl- n-polybutoxy₂₋₄; 1,4-
pentanediol, 2,3-dimethyl- (Me-polyethoxy₁); 1,4-pentanediol, 2,3-
dimethyl- polypropoxy₁; 1,4-pentanediol, 2,3-dimethyl- n-polybutoxy₂₋₄;
1,4-pentanediol, 2,4-dimethyl- (Me-polyethoxy₁); 1,4-pentanediol, 2,4-
dimethyl- polypropoxy₁; 1,4-pentanediol, 2,4-dimethyl- n-polybutoxy₂₋₄;
1,4-pentanediol, 2-methyl- (Me-polyethoxy₁₋₆); 1,4-pentanediol, 2-
methyl- polypropoxy₂₋₃; 1,4-pentanediol, 2-methyl- polybutoxy₁; 1,4-
pentanediol, 3,3-dimethyl- (Me-polyethoxy₁); 1,4-pentanediol, 3,3-
dimethyl- polypropoxy₁; 1,4-pentanediol, 3,3-dimethyl- n-polybutoxy₂₋₄;
1,4-pentanediol, 3,4-dimethyl- (Me-polyethoxy₁); 1,4-pentanediol, 3,4-
dimethyl- polypropoxy₁; 1,4-pentanediol, 3,4-dimethyl- n-polybutoxy₂₋₄;
1,4-pentanediol, 3-methyl- 2(Me-polyethoxy₁₋₆); 1,4-pentanediol, 3-
methyl- polypropoxy₂₋₃; 1,4-pentanediol, 3-methyl- polybutoxy₁; 1,4-
pentanediol, 4-methyl- 2(Me-polyethoxy₁₋₆); 1,4-pentanediol, 4-methyl-
polypropoxy₂₋₃; 1,4-pentanediol, 4-methyl- polybutoxy₁; 1,5-pentanediol,
(Me-polyethoxy₄₋₁₀); 1,5-pentanediol 2(Me-polyethoxy₁); 1,5-
pentanediol polypropoxy₃; 1,5-pentanediol, 2,2-dimethyl- polyethoxy₁₋₇;
1,5-pentanediol, 2,2-dimethyl- polypropoxy₁; 1,5-pentanediol, 2,2-
dimethyl- n-polybutoxy₁₋₂; 1,5-pentanediol, 2,3-dimethyl- polyethoxy₁₋₇;
1,5-pentanediol, 2,3-dimethyl- polypropoxy₁; 1,5-pentanediol, 2,3-
dimethyl- n-polybutoxy₁₋₂; 1,5-pentanediol, 2,4-dimethyl- polyethoxy₁₋₇;
1,5-pentanediol, 2,4-dimethyl- polypropoxy₁; 1,5-pentanediol, 2,4-
dimethyl- n-polybutoxy₁₋₂; 1,5-pentanediol, 2-ethyl- polyethoxy₁₋₅; 1,5-
pentanediol, 2-ethyl- n-polybutoxy₁₋₂; 1,5-pentanediol, 2-methyl- (Me-
polyethoxy₁₋₄); 1,5-pentanediol, 2-methyl- polypropoxy₂; 1,5-
pentanediol, 3,3-dimethyl- polyethoxy₁₋₇; 1,5-pentanediol, 3,3-dimethyl-
polypropoxy₁; 1,5-pentanediol, 3,3-dimethyl- n-polybutoxy₁₋₂; 1,5-
pentanediol, 3-methyl- (Me-polyethoxy₁₋₄); 1,5-pentanediol, 3-methyl-

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hexanediol, 3-methyl- polyethoxy₂₋₉; 1,5-hexanediol, 3-methyl- polypropoxy₁; 1,5-hexanediol, 3-methyl- n-polybutoxy₁₋₃; 1,5-hexanediol, 4-methyl- polyethoxy₂₋₉; 1,5-hexanediol, 4-methyl- polypropoxy₁; 1,5-hexanediol, 4-methyl- n-polybutoxy₁₋₃; 1,5-hexanediol, 5-methyl- polyethoxy₂₋₉; 1,5-hexanediol, 5-methyl- polypropoxy₁; 1,5-hexanediol, 5-methyl- n-polybutoxy₁₋₃; 1,6-hexanediol (Me-polyethoxy₁₋₂); 1,6-hexanediol polypropoxy₁₋₂; 1,6-hexanediol n-polybutoxy₄; 1,6-hexanediol, 2-methyl- polyethoxy₁₋₅; 1,6-hexanediol, 2-methyl- n-polybutoxy₁₋₂; 1,6-hexanediol, 3-methyl- polyethoxy₁₋₅; 1,6-hexanediol, 3-methyl- n-polybutoxy₁₋₂; 2,3-hexanediol polyethoxy₁₋₅; 2,3-hexanediol n-polybutoxy₁; 2,3-hexanediol polybutoxy₁; 2,4-hexanediol (Me-polyethoxy₃₋₈); 2,4-hexanediol polypropoxy₃; 2,4-hexanediol, 2-methyl- (Me-polyethoxy₁₋₂); 2,4-hexanediol 2-methyl- polypropoxy₁₋₂; 2,4-hexanediol, 3-methyl- (Me-polyethoxy₁₋₂); 2,4-hexanediol 3-methyl- polypropoxy₁₋₂; 2,4-hexanediol, 4-methyl- (Me-polyethoxy₁₋₂); 2,4-hexanediol 4-methyl- polypropoxy₁₋₂; 2,4-hexanediol, 5-methyl- (Me-polyethoxy₁₋₂); 2,4-hexanediol 5-methyl- polypropoxy₁₋₂; 2,5-hexanediol (Me-polyethoxy₃₋₈); 2,5-hexanediol polypropoxy₃; 2,5-hexanediol, 2-methyl- (Me-polyethoxy₁₋₂); 2,5-hexanediol 2-methyl- polypropoxy₁₋₂; 2,5-hexanediol, 3-methyl- (Me-polyethoxy₁₋₂); 2,5-hexanediol 3-methyl- polypropoxy₁₋₂; 3,4-hexanediol polyethoxy₁₋₅; 3,4-hexanediol n-polybutoxy₁; 3,4-hexanediol polybutoxy₁;

5. 1,3-heptanediol polyethoxy₁₋₇; 1,3-heptanediol polypropoxy₁; 1,3-heptanediol n-polybutoxy₁₋₂; 1,4-heptanediol polyethoxy₁₋₇; 1,4-heptanediol polypropoxy₁; 1,4-heptanediol n-polybutoxy₁₋₂; 1,5-heptanediol polyethoxy₁₋₇; 1,5-heptanediol polypropoxy₁; 1,5-heptanediol n-polybutoxy₁₋₂; 1,6-heptanediol polyethoxy₁₋₇; 1,6-heptanediol polypropoxy₁; 1,6-heptanediol n-polybutoxy₁₋₂; 1,7-heptanediol polyethoxy₁₋₂; 1,7-heptanediol n-polybutoxy₁; 2,4-heptanediol polyethoxy₃₋₁₀; 2,4-heptanediol (Me-polyethoxy₁); 2,4-heptanediol polypropoxy₁; 2,4-heptanediol n-polybutoxy₃; 2,5-heptanediol polyethoxy₃₋₁₀; 2,5-heptanediol (Me-polyethoxy₁); 2,5-heptanediol polypropoxy₁; 2,5-heptanediol n-polybutoxy₃; 2,6-heptanediol polyethoxy₃₋₁₀; 2,6-heptanediol (Me-polyethoxy₁); 2,6-heptanediol polypropoxy₁; 2,6-heptanediol n-polybutoxy₃; 3,5-

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heptanediol, 6-methyl- n-polybutoxy₁; 2,5-heptanediol, 2-methyl- n-polybutoxy₁; 2,5-heptanediol, 3-methyl- n-polybutoxy₁; 2,5-heptanediol, 4-methyl- n-polybutoxy₁; 2,5-heptanediol, 5-methyl- n-polybutoxy₁; 2,5-heptanediol, 6-methyl- n-polybutoxy₁; 2,6-heptanediol, 2-methyl- n-polybutoxy₁; 2,6-heptanediol, 3-methyl- n-polybutoxy₁; 2,6-heptanediol, 4-methyl- n-polybutoxy₁; 3,5-heptanediol, 2-methyl- n-polybutoxy₁; 1,3-propanediol, 2-(1,2-dimethylpropyl)- polyethoxy₁₋₃; 1,3-butanediol, 2-ethyl-2,3-dimethyl- polyethoxy₁₋₃; 1,3-butanediol, 2-methyl-2-isopropyl- polyethoxy₁₋₃; 1,4-butanediol, 3-methyl-2-isopropyl- polyethoxy₁₋₃; 1,3-pentanediol, 2,2,3-trimethyl- polyethoxy₁₋₃; 1,3-pentanediol, 2,2,4-trimethyl- polyethoxy₁₋₃; 1,3-pentanediol, 2,4,4-trimethyl- polyethoxy₁₋₃; 1,3-pentanediol, 3,4,4-trimethyl- polyethoxy₁₋₃; 1,4-pentanediol, 2,2,3-trimethyl- polyethoxy₁₋₃; 1,4-pentanediol, 2,2,4-trimethyl- polyethoxy₁₋₃; 1,4-pentanediol, 2,3,3-trimethyl- polyethoxy₁₋₃; 1,4-pentanediol, 2,3,4-trimethyl- polyethoxy₁₋₃; 1,4-pentanediol, 3,3,4-trimethyl- polyethoxy₁₋₃; 2,4-pentanediol, 2,3,4-trimethyl- polyethoxy₁₋₃; 2,4-hexanediol, 4-ethyl- polyethoxy₁₋₃; 2,4-heptanediol, 2-methyl- polyethoxy₁₋₃; 2,4-heptanediol, 3-methyl- polyethoxy₁₋₃; 2,4-heptanediol, 4-methyl- polyethoxy₁₋₃; 2,4-heptanediol, 5-methyl- polyethoxy₁₋₃; 2,4-heptanediol, 6-methyl- polyethoxy₁₋₃; 2,5-heptanediol, 2-methyl- polyethoxy₁₋₃; 2,5-heptanediol, 3-methyl- polyethoxy₁₋₃; 2,5-heptanediol, 4-methyl- polyethoxy₁₋₃; 2,5-heptanediol, 5-methyl- polyethoxy₁₋₃; 2,5-heptanediol, 6-methyl- polyethoxy₁₋₃; 2,6-heptanediol, 2-methyl- polyethoxy₁₋₃; 2,6-heptanediol, 3-methyl- polyethoxy₁₋₃; 2,6-heptanediol, 4-methyl- polyethoxy₁₋₃; and/or 3,5-heptanediol, 2-methyl- polyethoxy₁₋₃;

7. mixtures thereof; and

VIII. aromatic diols selected from the group consisting of: 1-phenyl-1,2-ethanediol; 1-phenyl-1,2-propanediol; 2-phenyl-1,2-propanediol; 3-phenyl-1,2-propanediol; 1-(3-methylphenyl)-1,3-propanediol; 1-(4-methylphenyl)-1,3-propanediol; 2-methyl-1-phenyl-1,3-propanediol; 1-phenyl-1,3-butanediol; 3-phenyl-1,3-butanediol; 1-phenyl-1,4-butanediol; 2-phenyl-1,4-butanediol; and/or 1-phenyl-2,3-butanediol; and mixtures thereof; and

IX. mixtures thereof;

with the exception of the following specific unsaturated compounds: 3,7-Octadiene-2,5-diol, 2,7-dimethyl-; 4,6-Octadiene-1,2-diol, 3,5-dimethyl-; 4,6-

Octadiene-1,2-diol, 3,5-dimethyl-; 4,6-Octadiene-1,2-diol, 3,5-dimethyl-; 4,6-Octadiene-1,2-diol, 3,5-dimethyl-; 4,6-Octadiene-1,2-diol, 3,5-dimethyl-; 1-Hexene-3,4-diol, 5,5-dimethyl-; 6-Heptene-1,4-diol, 4-methyl-; 4-Octene-3,6-diol; 4-Octene-3,6-diol; 3-Octene-1,2-diol; 3-Nonene-2,5-diol; 7-Nonene-4,5-diol; 7-Nonene-4,5-diol; 6-Nonene-2,3-diol; 6-Heptene-2,4-diol, 5-methyl-; 6-Octene-1,2-diol, 7-methyl-3-methylene-; 2,7-Octadiene-1,6-diol, 2,6-dimethyl-; 1,3-Propanediol, 2-(2-methylenepentyl)-; 3-Heptene-2,6-diol, 2,6-dimethyl-; 3-Heptene-2,6-diol, 2,6-dimethyl-; 5-Hexene-2,4-diol, 3,5-dimethyl-; 4-Hexene-1,2-diol, 2,5-dimethyl-; 4-Hexene-1,2-diol, 2,5-dimethyl-; 7-Octene-1,6-diol; 2-Hexene-1,4-diol, 2,5-dimethyl-; 2-Hexene-1,4-diol, 2,5-dimethyl-; 1,4-Hexanediol, 5-methyl-2-methylene-; 4-Octene-2,3-diol; Nonene-1,4-diol; 6-Heptene-1,4-diol, 4-methyl-; 6-Octene-3,5-diol, 4-methyl-; 2,6-Octadiene-1,8-diol, 2,6-dimethyl-; (8-Hydroxygeraniol); 1-Heptene-3,5-diol, 2,4-dimethyl- 2,4-Hexanediol, 5-methyl-3-methylene-; 2,4-Hexanediol, 5-methyl-3-methylene-; 5-Hexene-2,4-diol, 3-ethenyl-2,5-dimethyl-; 5-Hexene-2,4-diol, 3-ethenyl-2,5-dimethyl-; 6-Heptene-2,4-diol, 5-methyl-; 4,9-Decadiene-1,8-diol; 5-Hexene-1,3-diol, 2,4-dimethyl-; 7-Octene-1,3-diol, 2-methyl-; 5-Heptene-3-d-1,2-diol, 2,6-dimethyl-; 5-Heptene-3-d-1,2-diol, 2,6-dimethyl-; 4-Nonene-2,8-diol; 4-Nonene-2,8-diol; 5-Hexene-2,3-diol, 2,3-dimethyl-; 2-Butene-1,4-diol, 2-butyl-; 2,4-Hexadiene-1,6-diol, 3-(1,1-dimethylethyl)-; 6-Octene-1,4-diol, 7-methyl-; 6-Heptene-1,4-diol, 5,6-dimethyl-; 6-Heptene-1,4-diol, 5,6-dimethyl-; 7-Octene-2,5-diol, 7-methyl-; 7-Octene-2,5-diol, 7-methyl-; 4-Hexene-1,3-diol, 2,4-dimethyl-; 4-Octene-2,7-diol; 4-Octene-2,7-diol; 3-Heptene-1,2-diol, 5-methyl-; 3-Heptene-1,2-diol, 5-methyl-; 3,7-Octadiene-2,6-diol, 2,6-dimethyl-; 8-Nonene-1,7-diol; 2,6-Octadiene-1,4-diol, 3,7-dimethyl-; 5-Hexene-1,4-diol, 2,4-dimethyl-; 1-Heptene-3,4-diol, 6-methyl-; 3-Heptene-1,5-diol, 4,6-dimethyl-; 3-Octene-1,5-diol, 4-methyl-; 3,9-Decadiene-1,2-diol; 7-Octene-2,3-diol, 2-methyl-; 7-Octene-2,3-diol, 2-methyl-; 6-Nonene-2,3-diol; 2,5-Hexanediol, 3-methyl-4-methylene-; 6-Heptene-1,4-diol, 2-methyl-; 6-Octene-1,5-diol; 1-Octene-3,4-diol; 7-Octene-1,6-diol, 5-methyl-; 7-Octene-1,6-diol, 5-methyl-; 1,3-Butanediol, 2-methyl-2-(1-methylethenyl)-; 1,3-Pentanediol, 2-ethenyl-4,4-dimethyl-; 3,5-Octanediol, 4-methylene-; 3,5-Octanediol, 4-methylene-; 6-Heptene-2,3-diol, 2-methyl-; 6-Heptene-2,3-diol, 2,6-dimethyl-; 6-Heptene-2,3-diol, 2-methyl-; 7-Octene-1,3-diol, 4-methyl-; 1,3-Butanediol, 2-methyl-2-(1-methyl-2-propenyl)-; 5-Heptene-1,2-diol, 2,6-dimethyl-; 1-Nonene-3,4-diol; 5-Heptene-1,2-diol, 3-methyl-; 3,7-Octadiene-2,6-diol, 2,6-dimethyl-; 6-Heptene-1,3-diol, 2,2-dimethyl-; 4-Nonene-1,3-diol; 1,4-Pentanediol, 3-methyl-2-(2-

propenyl)-; 1-Nonene-3,4-diol; 8-Nonene-1,2-diol; 3-Octene-1,2-diol; 1,9-Decadiene-4,6-diol; 1,9-Decadiene-4,6-diol; 5-Hexene-1,3-diol, 2,2-dimethyl-; 1,3-Propanediol, 2-(1-pentenyl)-; 1,3-Propanediol, 2-(3-methyl-1-butenyl)-; 1,3-Propanediol, 2-(3-methyl-1-butenyl)-; 8-Nonene-1,3-diol; 2,4-Octadiene-1,8-diol, 2,7-dimethyl-; 5-Heptene-1,2-diol, 6-methyl-; 3,9-Decadiene-1,2-diol; 3-Nonene-1,2-diol; 6-Nonene-1,2-diol; 4-Hexene-1,3-diol, 2,4-dimethyl-; 2,4-Octadiene-1,7-diol, 3,7-dimethyl-; 4-Hexene-2,3-diol, 3,4-dimethyl-; 4-Hexene-2,3-diol, 3,4-dimethyl-; 4-Hexene-2,3-diol, 3,4-dimethyl-; 4-Hexene-2,3-diol, 3,4-dimethyl-; 5-Hexene-2,3-diol, 3,4-dimethyl-; 5-Hexene-2,3-diol, 3,4-dimethyl-; 5-Hexene-2,3-diol, 3,4-dimethyl-; 1,3-Butanediol, 2-methyl-2-(2-propenyl)-; 6-Heptene-2,5-diol, 4,6-dimethyl-; 6-Heptene-1,5-diol, 6-methyl-; 6-Heptene-2,5-diol, 4,6-dimethyl-; 1,5-Pentanediol, 2-(2-propenyl)-; 5-Hexene-2,3-diol, 3,5-dimethyl-; 5-Hexene-2,3-diol, 3,5-dimethyl-; Nonenediol; Octenediol; 5-Hexene-1,3-diol, 3,5-dimethyl-; 4-Nonene-1,8-diol; 4-Nonene-1,7-diol; 4-Nonene-1,6-diol; 6-Nonene-1,4-diol; 2-Nonene-1,4-diol; 8-Nonene-2,5-diol; 5-Heptene-1,2-diol, 2-ethenyl-6-methyl-; 4-Hexene-2,3-diol, 2,5-dimethyl-; 5-Heptene-2,3-diol, 2,6-dimethyl-; 1-Heptene-3,5-diol, 2,6-dimethyl-; 1-Heptene-3,5-diol, 2,6-dimethyl-; 7-Octene-1,3-diol, 7-methyl-; 1,3-Propanediol, 2-methyl-2-(3-methyl-3-butenyl)-; 5-Heptene-1,2-diol, 2,6-dimethyl-; 5,7-Octadiene-2,3-diol, 2,6-dimethyl-; 5,7-Octadiene-2,3-diol, 2,6-dimethyl-; 5-Hexene-1,2-diol, 2-ethyl-; 2,4-Nonadiene-4-d-1,7-diol, 6-methyl-; 2,4-Nonadiene-1,6,7-d3-1,7-diol, 6-methyl-; 2,4-Nonadiene-1,7-diol, 6-methyl-; 7-Octene-2,3-diol, 2-methyl-6-methylene-; 1,3-Butanediol, 3-methyl-2-(4-pentenylidene)-; 1,3-Butanediol, 3-methyl-2-(4-pentenylidene)-; 2-Hexene-1,4-diol, 5,5-dimethyl-; 2-Hexene-1,4-diol, 5,5-dimethyl-; 2-Nonene-1,4-diol; 2-Nonene-1,4-diol; 7-Octene-2,3-diol, 2-methyl-6-methylene-; 5-Octene-1,3-diol; 7-Octene-1,3-diol, 2-methyl-; 4-Heptene-1,3-diol, 2-methyl-; 4-Octene-2,3-d2-1,2-diol; 4-Octene-2,3-d2-1,2-diol; 5-Heptene-1,2-diol, 3-methyl-; 5-Octene-1,2-diol; 3,7-Octadiene-1,6-diol, 2,6-dimethyl-; 5-Heptene-1,2-diol, 2,6-dimethyl-; 1,7-Octadiene-4,5-diol, 4,5-dimethyl-; 1,7-Octadiene-4,5-diol, 4,5-dimethyl-; 5-Heptene-1,3-diol, 2-methyl-; 5-Heptene-1,3-diol, 2-methyl-; 3-Hexene-1,6-diol, 3,4-dimethyl-; 3-Hexene-1,6-diol, 3,4-dimethyl-; 2,6-Octadiene-1-t-1,8-diol, 2,6-dimethyl-; 2,6-Octadiene-1-t-1,8-diol, 2,6-dimethyl-; 2,6-Octadiene-1-d-1,8-diol, 2,6-dimethyl-; 2,6-Octadiene-1-d-1-t-1,8-diol, 2,6-dimethyl-; 2,6-Octadiene-1-d-1-t-1,8-diol, 2,6-dimethyl-; 2,6-Octadiene-1-d-1,8-diol, 2,6-dimethyl-; 2-Heptene-1,5-diol, 6-methyl-; 2-Heptene-1,5-diol, 6-methyl-; 8,9-Decadiene-3,5-diol; 8,9-Decadiene-3,5-diol; 4,6-Nonadiene-1,3-diol, 8-methyl-; 3,5-Nonadiene-1,7-diol, 8-

methyl-; 5-Heptene-1,3-diol, 2,4-dimethyl-; 2-Nonene-1,9-diol; 2-Nonene-1,9-diol;
 1,3-Butanediol, 2-ethyl-2-(2-propenyl)-; 3-Heptene-1,5-diol, 6-methyl-; 1,3-
 Pentanediol, 2-ethenyl-4-methyl-; 1,3-Pentanediol, 2-ethenyl-4-methyl-; 5-
 Hexene-2,3-diol, 3,4-dimethyl-; 5-Hexene-2,3-diol, 2,3,4-trimethyl-; 4-Pentene-
 1,2-diol, 2,3,3-trimethyl-; 1,3-Propanediol, 2-(2-methyl-2-propenyl)-2-(2-propenyl)-
 ; 1,3-Propanediol, 2-(2-butenyl)-2-(2-propenyl)-; 5-Hexene-1,2-diol, 2-ethyl-; 1,4-
 Butanediol, 2-(4-methyl-3-pentenylidene)-; 6-Heptene-1,3-diol, 2-methyl-; 2,6-
 Octadiene-1,8-diol-2-13C, 2,6-dimethyl-; 1-Hexene-3,4-diol, 5,5-dimethyl-; 1-
 Hexene-3,4-diol, 5,5-dimethyl-; 1-Nonene-3,4-diol; 8-Nonene-2,4-diol; 8-Nonene-
 2,4-diol; 7-Octene-1,2-diol, 2-methyl-; 1-Nonene-3,5-diol; 2,7-Octadiene-1,6-diol,
 2,6-dimethyl-; 7-Octene-1,2-diol; 7-Octene-1,2-diol; 2,5-Octadiene-1,7-diol, 3,7-
 dimethyl-; 1,3-Propanediol, 2-(2,2-dimethylpropylidene)-; 6-Octene-1,2-diol, 7-
 methyl-3-methylene-; 2,8-Decadiene-1,10-diol; 6-Octene-1,5-diol, 7-methyl-; 1,3-
 Butanediol, 2-(1-ethyl-1-propenyl)-; 4-Hexene-1,2-diol, 4-ethyl-3-methyl-; 8-
 Nonene-1,3-diol; 1,4-Butanediol, 2-(3-methyl-2-butenyl)-3-methylene-; 2,6-
 Heptadiene-1,4-diol, 2,5,5-trimethyl-; 2,6-Heptadiene-1,4-diol, 2,5,5-trimethyl-; 8-
 Nonene-2,4-diol; 2,6-Heptanediol, 4-methylene-; 3-Hexene-3,4-diol, 2,5-dimethyl-
 ; 4-Octene-4,5-diol; 5-Hexene-1,2-diol, 2,3-dimethyl-; 3-Hexene-1,6-diol, 2-
 ethenyl-2,5-dimethyl-; 3-Hexene-1,5-diol, 2,4-dimethyl-; 3-Hexene-1,5-diol, 2,4-
 dimethyl-; 3,7-Octadiene-2,6-diol, 2,6-dimethyl-; 3,6-Octadiene-1,2-diol, 3,7-
 dimethyl-; 7-Octene-2,3-diol, 6-methyl-; 7-Octene-2,3-diol, 6-methyl-; 7-Octene-
 2,3-diol, 6-methyl-; 2,5-Octadiene-1,7-diol, 3,7-dimethyl-; 6-Octene-1,3-diol, 7-
 methyl-; Decadienediol; 6-Heptene-1,2-diol, 2,3-dimethyl-; 4-Hexene-1,3-diol, 3,5-
 dimethyl-; 4-Pentene-1,3-diol, 2-(1,1-dimethylethyl)-; 4-Pentene-1,3-diol, 2-(1,1-
 dimethylethyl)-; 1-Heptene-3,5-diol, 6,6-dimethyl-; 1-Heptene-3,5-diol, 6,6-
 dimethyl-; 1,3-Hexanediol, 5-methyl-4-methylene-; 4-Octene-1,2-diol; 2,3-
 Heptanediol, 3-ethenyl-; 2,3-Heptanediol, 3-ethenyl-; 5-Hexene-1,3-diol, 2,4-
 dimethyl-; 5-Hexene-1,3-diol, 2,4-dimethyl-; 5-Hexene-1,3-diol, 2,4-dimethyl-; 2,6-
 Octadiene-1-t-1,8-diol, 3,7-dimethyl-; 8-Nonene-2,4-diol; 8-Nonene-2,4-diol; 1,3-
 Octanediol, 2-methylene-; 8-Nonene-1,3-diol; 5-Heptene-1,4-diol, 3,6-dimethyl-;
 5-Heptene-1,4-diol, 2,6-dimethyl-; 4-Octene-2,3-diol; 4-Octene-2,3-diol; 5,7-
 Octadiene-1,4-diol, 2,7-dimethyl-; 7-Octene-1,3-diol, 7-methyl-; 2-Heptene-1,5-
 diol, 5-ethyl-; 2-Heptene-1,5-diol, 5-ethyl-; 1,3-Pentanediol, 2-ethenyl-3-ethyl-; 5-
 Heptene-2,4-diol, 2,3-dimethyl-; 5-Heptene-2,4-diol, 2,3-dimethyl-; 8-Nonene-3,4-
 diol; 8-Nonene-3,4-diol; 5-Hexene-1,3-diol, 4,5-dimethyl-; 5-Hexene-1,3-diol, 4,5-
 dimethyl-; 4,6-Octadiene-2,3-diol, 3,7-dimethyl-; 1,3-Butanediol, 2,2-diallyl-; 1,9-

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Decadiene-3,8-diol; 2-Heptene-1,4-diol, 5,6-dimethyl-; 2-Heptene-1,4-diol, 5-methyl-; 2-Heptene-1,4-diol, 5,6-dimethyl-; 2-Heptene-1,4-diol, 5-methyl-; 2,8-Decadiene-5,6-diol; 2,7-Octadiene-1,6-diol, 2,6-dimethyl- (8-Hydroxylinalool); 6-Heptene-1,2-diol, 2-methyl-; 5-Hexene-1,3-diol, 2,3-dimethyl-; 2,6-Octadiene-1,8-diol, 6-methyl-2-(methyl-13C)-; 1,3-Propanediol, 2-(5-hexenyl)-; 8-Nonene-3,4-diol; 5-Hexene-1,3-diol, 3-ethyl-; 7-Octene-3,4-diol; 6-Heptene-1,2-diol, 2-methyl-; 6-Heptene-2,4-diol, 4-(2-propenyl)-; 2,6-Octadiene-1,4-diol, 3,7-dimethyl-; 8-Nonene-3,4-diol; 6-Heptene-2,3-diol, 6-methyl-; 6-Heptene-2,3-diol, 2,6-dimethyl-; 4-Hexene-2,3-diol, 2,5-dimethyl-; 4,6-Octadiene-2,3-diol, 2,6-dimethyl-; 7-Octene-2,3-diol, 2-methyl-6-methylene-; 7-Octene-2,3-diol, 6-methyl-; 4,6-Octadiene-2,3-diol, 2,6-dimethyl-; 1,4-Heptanediol, 6-methyl-5-methylene-; 2-Butene-1,4-diol, 2-(4-methyl-3-pentenyl)-; 4-Octene-1,2-diol; 4-Octene-1,2-diol; 7-Octene-2,4-diol; 6-Heptene-2,4-diol, 3-methyl-; 6-Heptene-2,4-diol, 3-methyl-; 3-Heptene-2,5-diol, 2,4-dimethyl-; 1,3-Butanediol, 2-(3-methyl-2-butenyl)-; 7-Octene-3,5-diol, 2-methyl-; 7-Octene-3,5-diol, 2-methyl-; 6-Heptene-2,4-diol, 5,5-dimethyl-; 6-Heptene-2,4-diol, 5,5-dimethyl-; 1,3-Propanediol, 2-methyl-2-(2-methylallyl)-; 2-Heptene-1,6-diol, 6-methyl-; 1,3-Butanediol, 2-allyl-3-methyl-; 2-Nonene-1,4-diol; 5-Hexene-2,3-diol, 4-ethenyl-2,5-dimethyl-; 5-Hexene-2,3-diol, 4-ethenyl-2,5-dimethyl- 2-Nonene-1,4-diol; 5-Heptene-1,3-diol, 3,6-dimethyl-; 1,5-Hexanediol, 2-(1-methylethenyl)-; and 1,3-Propanediol, 2-(1-pentenyl)-; and

D. mixtures of the above compounds; and

E. mixtures of 8-carbon-diol isomers consisting essentially of: 2,2,4-trimethyl-1,3-pentanediol; 2-ethyl-1,3-hexanediol; 2,2-dimethyl-1,3-hexanediol; 2-ethyl-4-methyl-1,3-pentanediol; 2-ethyl-3-methyl-1,3-pentanediol; 3,5-octanediol; 2,2-dimethyl-2,4-hexanediol; 2-methyl-3,5-heptanediol; and/or 3-methyl-3,5-heptanediol, any individual 1,3-diol being less than about 90% of any mixture.

125. The principal solvent of Claim 124, that is a compound selected from the group consisting of: 1,2-butanediol, 2,3,3-trimethyl-; 3,4-pentanediol, 2,3-dimethyl-; 2,3-hexanediol, 4-methyl-; 2,3-hexanediol, 5-methyl-; 3,4-hexanediol, 2-methyl-; 3,4-pentanediol, 2,3-dimethyl-; 1,3-propanediol, 2-(1,1-dimethylpropyl)-; 1,3-propanediol, 2-(1,2-dimethylpropyl)-; 1,3-propanediol, 2-(2,2-dimethylpropyl)-; 1,3-butanediol, 2-(1-methylpropyl)-; 1,3-butanediol, 2-ethyl-2,3-dimethyl-; 1,3-butanediol, 2-(2-methylpropyl)-; 1,3-butanediol, 2-methyl-2-isopropyl-; 1,3-butanediol, 3-methyl-2-isopropyl-; 1,3-butanediol, 3-methyl-2-propyl-; 1,4-butanediol, 2,2-diethyl-; 1,4-butanediol, 2-methyl-2-propyl-; 1,4-butanediol, 2-(1-methylpropyl)-; 1,4-butanediol, 2-ethyl-2,3-dimethyl-; 1,4-

butanediol, 2-ethyl-3,3-dimethyl-; 1,4-butanediol, 2-(2-methylpropyl)-; 1,4-pentanediol, 2,2,3-trimethyl-; 1,4-pentanediol, 2,3,3-trimethyl-; 1,5-pentanediol, 2,2,3-trimethyl-; 1,5-pentanediol, 2,3,3-trimethyl-; 1,3-pentanediol, 2-ethyl-2-methyl-; 1,4-pentanediol, 2-ethyl-2-methyl-; 1,4-pentanediol, 2-ethyl-3-methyl-; 1,4-pentanediol, 2-ethyl-4-methyl-; 1,4-pentanediol, 3-ethyl-2-methyl-; 1,4-pentanediol, 3-ethyl-3-methyl-; 1,5-pentanediol, 2-ethyl-2-methyl-; 1,5-pentanediol, 2-ethyl-4-methyl-; 2,4-pentanediol, 3-ethyl-2-methyl-; 1,3-pentanediol, 2-isopropyl-; 1,3-pentanediol, 2-propyl-; 1,4-pentanediol, 2-isopropyl-; 1,4-pentanediol, 2-propyl-; 1,4-pentanediol, 3-isopropyl-; 2,4-pentanediol, 3-propyl-; 1,3-hexanediol, 2,3-dimethyl-; 1,3-hexanediol, 2,5-dimethyl-; 1,3-hexanediol, 3,4-dimethyl-; 1,3-hexanediol, 3,5-dimethyl-; 1,3-hexanediol, 4,5-dimethyl-; 1,4-hexanediol, 2,2-dimethyl-; 1,4-hexanediol, 2,3-dimethyl-; 1,4-hexanediol, 2,4-dimethyl-; 1,4-hexanediol, 3,3-dimethyl-; 1,4-hexanediol, 3,4-dimethyl-; 1,4-hexanediol, 3,5-dimethyl-; 1,3-hexanediol, 4,4-dimethyl-; 1,4-hexanediol, 4,5-dimethyl-; 1,5-hexanediol, 2,2-dimethyl-; 1,5-hexanediol, 3,4-dimethyl-; 1,5-hexanediol, 3,5-dimethyl-; 1,5-hexanediol, 4,5-dimethyl-; 1,6-hexanediol, 2,3-dimethyl-; 1,6-hexanediol, 2,4-dimethyl-; 1,6-hexanediol, 3,3-dimethyl-; 2,4-hexanediol, 4,5-dimethyl-; 2,5-hexanediol, 2,3-dimethyl-; 2,5-hexanediol, 2,4-dimethyl-; 2,5-hexanediol, 3,3-dimethyl-; 2,6-hexanediol, 3,3-dimethyl-; 1,3-hexanediol, 4-ethyl-; 2,4-hexanediol, 3-ethyl-; 2,5-hexanediol, 3-ethyl-; 1,3-heptanediol, 4-methyl-; 1,3-heptanediol, 5-methyl-; 1,3-heptanediol, 6-methyl-; 1,5-heptanediol, 3-methyl-; 1,5-heptanediol, 4-methyl-; 1,6-heptanediol, 3-methyl-; 1,6-heptanediol, 5-methyl-; 2,4-heptanediol, 5-methyl-; 2,5-heptanediol, 3-methyl-; 3,5-heptanediol, 2-methyl-; 2,6-octanediol; 2,4-hexanediol, 3,3,4-trimethyl-; 2,4-hexanediol, 3,5,5-trimethyl-; 2,4-hexanediol, 4,5,5-trimethyl-; 2,5-hexanediol, 3,3,4-trimethyl-; 2,5-hexanediol, 3,3,5-trimethyl-; 1,2-propanediol, 3-(butyloxy)-, triethoxylated; 1,2-propanediol, 3-(butyloxy)-, tetraethoxylated; 1,2-propanediol, 3-(2-pentyloxy)-; 1,2-propanediol, 3-(3-pentyloxy)-; 1,2-propanediol, 3-(2-methyl-1-butyloxy)-; 1,2-propanediol, 3-(iso-amyl-1-oxy)-; 1,2-propanediol, 3-(3-methyl-2-butyloxy)-; 1,2-propanediol, 3-(cyclohexyloxy)-; 1,2-propanediol, 3-(1-cyclohex-1-enyloxy)-; 1,3-propanediol, 2-(pentyloxy)-; 1,3-propanediol, 2-(2-pentyloxy)-; 1,3-propanediol, 2-(3-pentyloxy)-; 1,3-propanediol, 2-(2-methyl-1-butyloxy)-; 1,3-propanediol, 2-(iso-amyl-1-oxy)-; 1,3-propanediol, 2-(3-methyl-2-butyloxy)-; 1,3-propanediol, 2-(cyclohexyloxy)-; 1,3-propanediol, 2-(1-cyclohex-1-enyloxy)-; 1,2-propanediol, 3-(butyloxy)-, pentaethoxylated; 1,2-propanediol, 3-(butyloxy)-, hexaethoxylated; 1,2-propanediol, 3-(butyloxy)-, heptaethoxylated; 1,2-propanediol, 3-(butyloxy)-, octaethoxylated; 1,2-propanediol, 3-(butyloxy)-, nonaethoxylated; 1,2-propanediol, 3-(butyloxy)-, monopropoxylated; 1,2-

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ca' propanediol, 3-(butyloxy)-, dibutyleneoxylated; and 1,2-propanediol, 3-(butyloxy)-, tributyleneoxylated.

126. The principal solvent of Claim 124, that is an ether solvent selected from the group consisting of: 1,2-propanediol, 3-(2-pentyloxy)-; 1,2-propanediol, 3-(3-pentyloxy)-; 1,2-propanediol, 3-(2-methyl-1-butyloxy)-; 1,2-propanediol, 3-(iso-amyl-1-oxy)-; 1,2-propanediol, 3-(3-methyl-2-butyloxy)-; 1,2-propanediol, 3-(cyclohexyloxy)-; 1,2-propanediol, 3-(1-cyclohex-1-enyloxy)-; 1,3-propanediol, 2-(pentyloxy)-; 1,3-propanediol, 2-(2-pentyloxy)-; 1,3-propanediol, 2-(3-pentyloxy)-; 1,3-propanediol, 2-(2-methyl-1-butyloxy)-; 1,3-propanediol, 2-(iso-amyl-1-oxy)-; 1,3-propanediol, 2-(3-methyl-2-butyloxy)-; 1,3-propanediol, 2-(cyclohexyloxy)-; 1,3-propanediol, 2-(1-cyclohex-1-enyloxy)-; 1,2-propanediol, 3-(butyloxy)-, triethoxylated; 1,2-propanediol, 3-(butyloxy)-, tetraethoxylated; 1,2-propanediol, 3-(butyloxy)-, pentaethoxylated; 1,2-propanediol, 3-(butyloxy)-, hexaethoxylated; 1,2-propanediol, 3-(butyloxy)-, heptaethoxylated; 1,2-propanediol, 3-(butyloxy)-, octaethoxylated; 1,2-propanediol, 3-(butyloxy)-, nonaethoxylated; 1,2-propanediol, 3-(butyloxy)-, monopropoxylated; 1,2-propanediol, 3-(butyloxy)-, dibutyleneoxylated; and 1,2-propanediol, 3-(butyloxy)-, tributyleneoxylated; bis(2-hydroxybutyl)ether; and bis(2-hydroxycyclopentyl)ether.

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127. The principal solvent of Claim 124, that is an unsaturated compound which is a homolog, or analog, of the following compounds in which each homolog, or analog, contains at least one additional CH_2 group and the total number of hydrogen atoms is kept the same by inserting one double bond for each additional CH_2 group:

- could be ∞*
- I. n-propanol;
 - II. 2-butanol and/or 2-methyl-2-propanol;
 - III. 2,3-butanediol, 2,3-dimethyl-; 1,2-butanediol, 2,3-dimethyl-; 1,2-butanediol, 3,3-dimethyl-; 2,3-pentanediol, 2-methyl-; 2,3-pentanediol, 3-methyl-; 2,3-pentanediol, 4-methyl-; 2,3-hexanediol; 3,4-hexanediol; 1,2-butanediol, 2-ethyl-; 1,2-pentanediol, 2-methyl-; 1,2-pentanediol, 3-methyl-; 1,2-pentanediol, 4-methyl-; and/or 1,2-hexanediol;
 - IV. 1,3-propanediol, 2-butyl-; 1,3-propanediol, 2,2-diethyl-; 1,3-propanediol, 2-(1-methylpropyl)-; 1,3-propanediol, 2-(2-methylpropyl)-; 1,3-propanediol, 2-methyl-2-propyl-; 1,2-butanediol, 2,3,3-trimethyl-; 1,4-butanediol, 2-ethyl-2-methyl-; 1,4-butanediol, 2-ethyl-3-methyl-; 1,4-butanediol, 2-propyl-; 1,4-butanediol, 2-isopropyl-; 1,5-pentanediol, 2,2-dimethyl-; 1,5-pentanediol, 2,3-dimethyl-; 1,5-pentanediol, 2,4-dimethyl-; 1,5-pentanediol, 3,3-dimethyl-; 2,3-pentanediol, 2,3-

dimethyl-; 2,3-pentanediol, 2,4-dimethyl-; 2,3-pentanediol, 3,4-dimethyl-; 2,3-pentanediol, 4,4-dimethyl-; 3,4-pentanediol, 2,3-dimethyl-; 1,5-pentanediol, 2-ethyl-; 1,6-hexanediol, 2-methyl-; 1,6-hexanediol, 3-methyl-; 2,3-hexanediol, 2-methyl-; 2,3-hexanediol, 3-methyl-; 2,3-hexanediol, 4-methyl-; 2,3-hexanediol, 5-methyl-; 3,4-hexanediol, 2-methyl-; 3,4-hexanediol, 3-methyl-; 1,3-heptanediol; 1,4-; heptanediol; 1,5-heptanediol; and 1,6-heptanediol;

- V. 1,3-propanediol, 2-(2-methylbutyl)-; 1,3-propanediol, 2-(1,1-dimethylpropyl)- 1,3-propanediol, 2-(1,2-dimethylpropyl)-; 1,3-propanediol, 2-(1-ethylpropyl)-; 1,3-propanediol, 2-(1-methylbutyl)-; 1,3-propanediol, 2-(2,2-dimethylpropyl)-; 1,3-propanediol, 2-(3-methylbutyl)-; 1,3-propanediol, 2-butyl-2-methyl-; 1,3-propanediol, 2-ethyl-2-isopropyl-; 1,3-propanediol, 2-ethyl-2-propyl-; 1,3-propanediol, 2-methyl-2-(1-methylpropyl)-; 1,3-propanediol, 2-methyl-2-(2-methylpropyl)-; 1,3-propanediol, 2-tertiary-butyl-2-methyl-; 1,3-butanediol, 2,2-diethyl-; 1,3-butanediol, 2-(1-methylpropyl)-; 1,3-butanediol, 2-butyl-; 1,3-butanediol, 2-ethyl-2,3-dimethyl-; 1,3-butanediol, 2-(1,1-dimethylethyl)-; 1,3-butanediol, 2-(2-methylpropyl)-; 1,3-butanediol, 2-methyl-2-isopropyl-; 1,3-butanediol, 2-methyl-2-propyl-; 1,3-butanediol, 3-methyl-2-isopropyl-; 1,3-butanediol, 3-methyl-2-propyl-; 1,4-butanediol, 2,2-diethyl-; 1,4-butanediol, 2-methyl-2-propyl-; 1,4-butanediol, 2-(1-methylpropyl)-; 1,4-butanediol, 2-ethyl-2,3-dimethyl-; 1,4-butanediol, 2-ethyl-3,3-dimethyl-; 1,4-butanediol, 2-(1,1-dimethylethyl)-; 1,4-butanediol, 2-(2-methylpropyl)-; 1,4-butanediol, 2-methyl-3-propyl-; 1,4-butanediol, 3-methyl-2-isopropyl-; 1,3-pentanediol, 2,2,3-trimethyl-; 1,3-pentanediol, 2,2,4-trimethyl-; 1,3-pentanediol, 2,3,4-trimethyl-; 1,3-pentanediol, 2,4,4-trimethyl-; 1,3-pentanediol, 3,4,4-trimethyl-; 1,4-pentanediol, 2,2,3-trimethyl-; 1,4-pentanediol, 2,2,4-trimethyl-; 1,4-pentanediol, 2,3,3-trimethyl-; 1,4-pentanediol, 3,3,4-trimethyl-; 1,5-pentanediol, 2,2,3-trimethyl-; 1,5-pentanediol, 2,2,4-trimethyl-; 1,5-pentanediol, 2,3,3-trimethyl-; 1,5-pentanediol, 2,3,4-trimethyl-; 2,4-pentanediol, 2,3,3-trimethyl-; 2,4-pentanediol, 2,3,4-trimethyl-; 1,3-pentanediol, 2-ethyl-2-methyl-; 1,3-pentanediol, 2-ethyl-3-methyl-; 1,3-pentanediol, 2-ethyl-4-methyl-; 1,3-pentanediol, 3-ethyl-2-methyl-; 1,4-pentanediol, 2-ethyl-2-methyl-; 1,4-pentanediol, 2-ethyl-3-methyl-; 1,4-pentanediol, 2-ethyl-4-methyl-; 1,4-pentanediol, 3-ethyl-2-methyl-; 1,4-pentanediol, 3-ethyl-3-methyl-; 1,5-pentanediol, 2-ethyl-2-methyl-; 1,5-pentanediol, 2-ethyl-3-methyl-; 1,5-pentanediol, 2-ethyl-4-methyl-; 1,5-pentanediol, 3-ethyl-3-methyl-; 2,4-pentanediol, 3-ethyl-2-methyl-; 1,3-pentanediol, 2-isopropyl-; 1,3-pentanediol, 2-propyl-; 1,4-pentanediol, 2-

isopropyl-; 1,4-pentanediol, 2-propyl-; 1,4-pentanediol, 3-isopropyl-; 1,5-pentanediol, 2-isopropyl-; 2,4-pentanediol, 3-propyl-; 1,3-hexanediol, 2,2-dimethyl-; 1,3-hexanediol, 2,3-dimethyl-; 1,3-hexanediol, 2,4-dimethyl-; 1,3-hexanediol, 2,5-dimethyl-; 1,3-hexanediol, 3,4-dimethyl-; 1,3-hexanediol, 3,5-dimethyl-; 1,3-hexanediol, 4,5-dimethyl-; 1,4-hexanediol, 2,2-dimethyl-; 1,4-hexanediol, 2,3-dimethyl-; 1,4-hexanediol, 2,4-dimethyl-; 1,4-hexanediol, 2,5-dimethyl-; 1,4-hexanediol, 3,3-dimethyl-; 1,4-hexanediol, 3,4-dimethyl-; 1,4-hexanediol, 3,5-dimethyl-; 1,3-hexanediol, 4,4-dimethyl-; 1,4-hexanediol, 4,5-dimethyl-; 1,4-hexanediol, 5,5-dimethyl-; 1,5-hexanediol, 2,2-dimethyl-; 1,5-hexanediol, 2,3-dimethyl-; 1,5-hexanediol, 2,4-dimethyl-; 1,5-hexanediol, 2,5-dimethyl-; 1,5-hexanediol, 3,3-dimethyl-; 1,5-hexanediol, 3,4-dimethyl-; 1,5-hexanediol, 3,5-dimethyl-; 1,5-hexanediol, 4,5-dimethyl-; 1,6-hexanediol, 2,2-dimethyl-; 1,6-hexanediol, 2,3-dimethyl-; 1,6-hexanediol, 2,4-dimethyl-; 1,6-hexanediol, 2,5-dimethyl-; 1,6-hexanediol, 3,3-dimethyl-; 1,6-hexanediol, 3,4-dimethyl-; 2,4-hexanediol, 2,3-dimethyl-; 2,4-hexanediol, 2,4-dimethyl-; 2,4-hexanediol, 2,5-dimethyl-; 2,4-hexanediol, 3,3-dimethyl-; 2,4-hexanediol, 3,4-dimethyl-; 2,4-hexanediol, 3,5-dimethyl-; 2,4-hexanediol, 4,5-dimethyl-; 2,4-hexanediol, 5,5-dimethyl-; 2,5-hexanediol, 2,3-dimethyl-; 2,5-hexanediol, 2,4-dimethyl-; 2,5-hexanediol, 2,5-dimethyl-; 2,5-hexanediol, 3,3-dimethyl-; 2,5-hexanediol, 3,4-dimethyl-; 2,6-hexanediol, 3,3-dimethyl-; 1,3-heptanediol, 2-ethyl-; 1,3-hexanediol, 4-ethyl-; 1,4-hexanediol, 2-ethyl-; 1,4-hexanediol, 4-ethyl-; 1,5-hexanediol, 2-ethyl-; 2,4-hexanediol, 3-ethyl-; 2,4-hexanediol, 4-ethyl-; 2,5-hexanediol, 3-ethyl-; 1,3-heptanediol, 2-methyl-; 1,3-heptanediol, 3-methyl-; 1,3-heptanediol, 4-methyl-; 1,3-heptanediol, 5-methyl-; 1,3-heptanediol, 6-methyl-; 1,4-heptanediol, 2-methyl-; 1,4-heptanediol, 3-methyl-; 1,4-heptanediol, 4-methyl-; 1,4-heptanediol, 5-methyl-; 1,4-heptanediol, 6-methyl-; 1,5-heptanediol, 2-methyl-; 1,5-heptanediol, 3-methyl-; 1,5-heptanediol, 4-methyl-; 1,5-heptanediol, 5-methyl-; 1,5-heptanediol, 6-methyl-; 1,6-heptanediol, 2-methyl-; 1,6-heptanediol, 3-methyl-; 1,6-heptanediol, 4-methyl-; 1,6-heptanediol, 5-methyl-; 1,6-heptanediol, 6-methyl-; 2,4-heptanediol, 2-methyl-; 2,4-heptanediol, 3-methyl-; 2,4-heptanediol, 4-methyl-; 2,4-heptanediol, 5-methyl-; 2,4-heptanediol, 6-methyl-; 2,5-heptanediol, 2-methyl-; 2,5-heptanediol, 3-methyl-; 2,5-heptanediol, 4-methyl-; 2,5-heptanediol, 5-methyl-; 2,5-heptanediol, 6-methyl-; 2,6-heptanediol, 2-methyl-; 2,6-heptanediol, 3-methyl-; 2,6-heptanediol, 4-methyl-; 3,4-heptanediol, 3-methyl-; 3,5-heptanediol, 2-methyl-; 3,5-heptanediol, 3-methyl-

; 3,5-heptanediol, 4-methyl-; 2,4-octanediol; 2,5-octanediol; 2,6-octanediol; 2,7-octanediol; 3,5-octanediol; and/or 3,6-octanediol;

VI. 2,4-pentanediol, 2,3,3,4-tetramethyl-; 2,4-pentanediol, 3-tertiarybutyl-; 2,4-hexanediol, 2,5,5-trimethyl-; 2,4-hexanediol, 3,3,4-trimethyl-; 2,4-hexanediol, 3,3,5-trimethyl-; 2,4-hexanediol, 3,5,5-trimethyl-; 2,4-hexanediol, 4,5,5-trimethyl-; 2,5-hexanediol, 3,3,4-trimethyl-; and/or 2,5-hexanediol, 3,3,5-trimethyl-;

VIII. Alkoxylated derivatives of C₃₋₈ diols selected from the group consisting

of:

1. 1,2-propanediol 2(Me-polyethoxy₁₋₄); 1,2-propanediol polypropoxy₄; 1,2-propanediol, 2-methyl- (Me-polyethoxy₄₋₁₀); 1,2-propanediol, 2-methyl-2(Me-polyethoxy₁); 1,2-propanediol, 2-methyl- polypropoxy₃; 1,2-propanediol, 2-methyl- polybutoxy₁; 1,3-propanediol 2(Me-polyethoxy₆₋₈); 1,3-propanediol polypropoxy₅₋₆; 1,3-propanediol, 2,2-diethyl- polyethoxy₁₋₇; 1,3-propanediol, 2,2-diethyl- polypropoxy₁; 1,3-propanediol, 2,2-diethyl- n-polybutoxy₁₋₂; 1,3-propanediol, 2,2-dimethyl- 2(Me polyethoxy₁₋₂); 1,3-propanediol, 2,2-dimethyl- polypropoxy₃₋₄; 1,3-propanediol, 2-(1-methylpropyl)- polyethoxy₁₋₇; 1,3-propanediol, 2-(1-methylpropyl)- polypropoxy₁; 1,3-propanediol, 2-(1-methylpropyl)- n-polybutoxy₁₋₂; 1,3-propanediol, 2-(2-methylpropyl)- polyethoxy₁₋₇; 1,3-propanediol, 2-(2-methylpropyl)- polypropoxy₁; 1,3-propanediol, 2-(2-methylpropyl)- n-polybutoxy₁₋₂; 1,3-propanediol, 2-ethyl- (Me polyethoxy₆₋₁₀); 1,3-propanediol, 2-ethyl- 2(Me polyethoxy₁); 1,3-propanediol, 2-ethyl- polypropoxy₃; 1,3-propanediol, 2-ethyl-2-methyl- (Me polyethoxy₁₋₆); 1,3-propanediol, 2-ethyl-2-methyl- polypropoxy₂; 1,3-propanediol, 2-ethyl-2-methyl- polybutoxy₁; 1,3-propanediol, 2-isopropyl- (Me polyethoxy₁₋₆); 1,3-propanediol, 2-isopropyl- polypropoxy₂; 1,3-propanediol, 2-isopropyl- polybutoxy₁; 1,3-propanediol, 2-methyl- 2(Me polyethoxy₂₋₅); 1,3-propanediol, 2-methyl- polypropoxy₄₋₅; 1,3-propanediol, 2-methyl- polybutoxy₂; 1,3-propanediol, 2-methyl-2-isopropyl- polyethoxy₂₋₉; 1,3-propanediol, 2-methyl-2-isopropyl- polypropoxy₁; 1,3-propanediol, 2-methyl-2-isopropyl- n-polybutoxy₁₋₃; 1,3-propanediol, 2-methyl-2-propyl- polyethoxy₁₋₇; 1,3-propanediol, 2-methyl-2-propyl- polypropoxy₁; 1,3-propanediol, 2-methyl-2-propyl- n-polybutoxy₁₋₂; 1,3-propanediol, 2-propyl- (Me polyethoxy₁₋₄); 1,3-propanediol, 2-propyl- polypropoxy₂; 1,3-propanediol, 2-propyl- polybutoxy₁;

2. 1,2-butanediol (Me polyethoxy₂₋₈); 1,2-butanediol polypropoxy₂₋₃; 1,2-butanediol polybutoxy₁; 1,2-butanediol, 2,3-dimethyl- polyethoxy₁₋₆; 1,2-butanediol, 2,3-dimethyl- n-polybutoxy₁₋₂; 1,2-butanediol, 2-ethyl- polyethoxy₁₋₃; 1,2-butanediol, 2-ethyl- n-polybutoxy₁; 1,2-butanediol, 2-methyl- (Me polyethoxy₁₋₂); 1,2-butanediol, 2-methyl- polypropoxy₁; 1,2-butanediol, 3,3-dimethyl- polyethoxy₁₋₆; 1,2-butanediol, 3,3-dimethyl- n-polybutoxy₁₋₂; 1,2-butanediol, 3-methyl- (Me polyethoxy₁₋₂); 1,2-butanediol, 3-methyl- polypropoxy₁; 1,3-butanediol 2(Me polyethoxy₃₋₆); 1,3-butanediol polypropoxy₅; 1,3-butanediol polybutoxy₂; 1,3-butanediol, 2,2,3-trimethyl- (Me polyethoxy₁₋₃); 1,3-butanediol, 2,2,3-trimethyl- polypropoxy₁₋₂; 1,3-butanediol, 2,2-dimethyl- (Me polyethoxy₃₋₈); 1,3-butanediol, 2,2-dimethyl- polypropoxy₃; 1,3-butanediol, 2,3-dimethyl- (Me polyethoxy₃₋₈); 1,3-butanediol, 2,3-dimethyl- polypropoxy₃; 1,3-butanediol, 2-ethyl- (Me polyethoxy₁₋₆); 1,3-butanediol, 2-ethyl- polypropoxy₂₋₃; 1,3-butanediol, 2-ethyl- polybutoxy₁; 1,3-butanediol, 2-ethyl-2-methyl- (Me polyethoxy₁); 1,3-butanediol, 2-ethyl-2-methyl- polypropoxy₁; 1,3-butanediol, 2-ethyl-2-methyl- n-polybutoxy₂₋₄; 1,3-butanediol, 2-ethyl-3-methyl- (Me polyethoxy₁); 1,3-butanediol, 2-ethyl-3-methyl- polypropoxy₁; 1,3-butanediol, 2-ethyl-3-methyl- n-polybutoxy₂₋₄; 1,3-butanediol, 2-isopropyl- (Me polyethoxy₁); 1,3-butanediol, 2-isopropyl- polypropoxy₁; 1,3-butanediol, 2-isopropyl- n-polybutoxy₂₋₄; 1,3-butanediol, 2-methyl- 2(Me polyethoxy₁₋₃); 1,3-butanediol, 2-methyl- polypropoxy₄; 1,3-butanediol, 2-propyl- polyethoxy₂₋₉; 1,3-butanediol, 2-propyl- polypropoxy₁; 1,3-butanediol, 2-propyl- n-polybutoxy₁₋₃; 1,3-butanediol, 3-methyl- 2(Me polyethoxy₁₋₃); 1,3-butanediol, 3-methyl- polypropoxy₄; 1,4-butanediol 2(Me polyethoxy₂₋₄); 1,4-butanediol polypropoxy₄₋₅; 1,4-butanediol polybutoxy₂; 1,4-butanediol, 2,2,3-trimethyl- polyethoxy₂₋₉; 1,4-butanediol, 2,2,3-trimethyl- polypropoxy₁; 1,4-butanediol, 2,2,3-trimethyl- n-polybutoxy₁₋₃; 1,4-butanediol, 2,2-dimethyl- (Me polyethoxy₁₋₆); 1,4-butanediol, 2,2-dimethyl- polypropoxy₂; 1,4-butanediol, 2,2-dimethyl- polybutoxy₁; 1,4-butanediol, 2,3-dimethyl- (Me polyethoxy₁₋₆); 1,4-butanediol, 2,3-dimethyl- polypropoxy₂; 1,4-butanediol, 2,3-dimethyl- polybutoxy₁; 1,4-butanediol, 2-ethyl- (Me polyethoxy₁₋₄); 1,4-butanediol, 2-ethyl- polypropoxy₂; 1,4-butanediol, 2-ethyl- polybutoxy₁; 1,4-butanediol, 2-ethyl-2-methyl- polyethoxy₁₋₇; 1,4-butanediol, 2-ethyl-2-methyl- polypropoxy₁; 1,4-butanediol, 2-ethyl-2-methyl- n-polybutoxy₁₋₂; 1,4-butanediol, 2-ethyl-3-methyl- polyethoxy₁₋₇; 1,4-butanediol, 2-ethyl-3-methyl-

polypropoxy₁; 1,4-butanediol, 2-ethyl-3-methyl- n-polybutoxy₁₋₂; 1,4-butanediol, 2-isopropyl- polyethoxy₁₋₇; 1,4-butanediol, 2-isopropyl- polypropoxy₁; 1,4-butanediol, 2-isopropyl- n-polybutoxy₁₋₂; 1,4-butanediol, 2-methyl- (Me polyethoxy₆₋₁₀); 1,4-butanediol, 2-methyl- 2(Me polyethoxy₁); 1,4-butanediol, 2-methyl- polypropoxy₃; 1,4-butanediol, 2-methyl- polybutoxy₁; 1,4-butanediol, 2-propyl- polyethoxy₁₋₅; 1,4-butanediol, 2-propyl- n-polybutoxy₁₋₂; 1,4-butanediol, 3-ethyl-1-methyl- polyethoxy₂₋₉; 1,4-butanediol, 3-ethyl-1-methyl- polypropoxy₁; 1,4-butanediol, 3-ethyl-1-methyl- n-polybutoxy₁₋₃; 2,3-butanediol (Me polyethoxy₆₋₁₀); 2,3-butanediol 2(Me polyethoxy₁); 2,3-butanediol polypropoxy₃₋₄; 2,3-butanediol polybutoxy₁; 2,3-butanediol, 2,3-dimethyl- polyethoxy₃₋₉; 2,3-butanediol, 2,3-dimethyl- polypropoxy₁; 2,3-butanediol, 2,3-dimethyl- n-polybutoxy₁₋₃; 2,3-butanediol, 2-methyl- (Me polyethoxy₁₋₅); 2,3-butanediol, 2-methyl- polypropoxy₂; 2,3-butanediol, 2-methyl- polybutoxy₁;

3. 1,2-pentanediol polyethoxy₃₋₁₀; 1,2-pentanediol, polypropoxy₁; 1,2-pentanediol, n-polybutoxy₂₋₃; 1,2-pentanediol, 2-methyl polyethoxy₁₋₃; 1,2-pentanediol, 2-methyl n-polybutoxy₁; 1,2-pentanediol, 2-methyl polybutoxy₁; 1,2-pentanediol, 3-methyl polyethoxy₁₋₃; 1,2-pentanediol, 3-methyl n-polybutoxy₁; 1,2-pentanediol, 4-methyl polyethoxy₁₋₃; 1,2-pentanediol, 4-methyl n-polybutoxy₁; 1,3-pentanediol 2(Me-polyethoxy₁₋₂); 1,3-pentanediol polypropoxy₃₋₄; 1,3-pentanediol, 2,2-dimethyl- (Me-polyethoxy₁); 1,3-pentanediol, 2,2-dimethyl- polypropoxy₁; 1,3-pentanediol, 2,2-dimethyl- n-polybutoxy₂₋₄; 1,3-pentanediol, 2,3-dimethyl- (Me-polyethoxy₁); 1,3-pentanediol, 2,3-dimethyl- polypropoxy₁; 1,3-pentanediol, 2,3-dimethyl- n-polybutoxy₂₋₄; 1,3-pentanediol, 2,4-dimethyl- (Me-polyethoxy₁); 1,3-pentanediol, 2,4-dimethyl- polypropoxy₁; 1,3-pentanediol, 2,4-dimethyl- n-polybutoxy₂₋₄; 1,3-pentanediol, 2-ethyl- polyethoxy₂₋₉; 1,3-pentanediol, 2-ethyl- polypropoxy₁; 1,3-pentanediol, 2-ethyl- n-polybutoxy₁₋₃; 1,3-pentanediol, 2-methyl- 2(Me-polyethoxy₁₋₆); 1,3-pentanediol, 2-methyl- polypropoxy₂₋₃; 1,3-pentanediol, 2-methyl- polybutoxy₁; 1,3-pentanediol, 3,4-dimethyl- (Me-polyethoxy₁); 1,3-pentanediol, 3,4-dimethyl- polypropoxy₁; 1,3-pentanediol, 3,4-dimethyl- n-polybutoxy₂₋₄; 1,3-pentanediol, 3-methyl- (Me-polyethoxy₁₋₆); 1,3-pentanediol, 3-methyl- polypropoxy₂₋₃; 1,3-pentanediol, 3-methyl- polybutoxy₁; 1,3-pentanediol, 4,4-dimethyl- (Me-polyethoxy₁); 1,3-pentanediol, 4,4-dimethyl-

polypropoxy₁; 1,3-pentanediol, 4,4-dimethyl- n-polybutoxy₂₋₄; 1,3-pentanediol, 4-methyl- (Me-polyethoxy₁₋₆); 1,3-pentanediol, 4-methyl-polypropoxy₂₋₃; 1,3-pentanediol, 4-methyl- polybutoxy₁; 1,4-pentanediol, 2(Me-polyethoxy₁₋₂); 1,4-pentanediol polypropoxy₃₋₄; 1,4-pentanediol, 2,2-dimethyl- (Me-polyethoxy₁); 1,4-pentanediol, 2,2-dimethyl- polypropoxy₁; 1,4-pentanediol, 2,2-dimethyl- n-polybutoxy₂₋₄; 1,4-pentanediol, 2,3-dimethyl- (Me-polyethoxy₁); 1,4-pentanediol, 2,3-dimethyl- polypropoxy₁; 1,4-pentanediol, 2,3-dimethyl- n-polybutoxy₂₋₄; 1,4-pentanediol, 2,4-dimethyl- (Me-polyethoxy₁); 1,4-pentanediol, 2,4-dimethyl- polypropoxy₁; 1,4-pentanediol, 2,4-dimethyl- n-polybutoxy₂₋₄; 1,4-pentanediol, 2-methyl- (Me-polyethoxy₁₋₆); 1,4-pentanediol, 2-methyl- polypropoxy₂₋₃; 1,4-pentanediol, 2-methyl- polybutoxy₁; 1,4-pentanediol, 3,3-dimethyl- (Me-polyethoxy₁); 1,4-pentanediol, 3,3-dimethyl- polypropoxy₁; 1,4-pentanediol, 3,3-dimethyl- n-polybutoxy₂₋₄; 1,4-pentanediol, 3,4-dimethyl- (Me-polyethoxy₁); 1,4-pentanediol, 3,4-dimethyl- polypropoxy₁; 1,4-pentanediol, 3,4-dimethyl- n-polybutoxy₂₋₄; 1,4-pentanediol, 3-methyl- 2(Me-polyethoxy₁₋₆); 1,4-pentanediol, 3-methyl- polypropoxy₂₋₃; 1,4-pentanediol, 3-methyl- polybutoxy₁; 1,4-pentanediol, 4-methyl- 2(Me-polyethoxy₁₋₆); 1,4-pentanediol, 4-methyl- polypropoxy₂₋₃; 1,4-pentanediol, 4-methyl- polybutoxy₁; 1,5-pentanediol, (Me-polyethoxy₄₋₁₀); 1,5-pentanediol 2(Me-polyethoxy₁); 1,5-pentanediol polypropoxy₃; 1,5-pentanediol, 2,2-dimethyl-polyethoxy₁₋₇; 1,5-pentanediol, 2,2-dimethyl- polypropoxy₁; 1,5-pentanediol, 2,2-dimethyl- n-polybutoxy₁₋₂; 1,5-pentanediol, 2,3-dimethyl- polyethoxy₁₋₇; 1,5-pentanediol, 2,3-dimethyl- polypropoxy₁; 1,5-pentanediol, 2,3-dimethyl- n-polybutoxy₁₋₂; 1,5-pentanediol, 2,4-dimethyl- polyethoxy₁₋₇; 1,5-pentanediol, 2,4-dimethyl- polypropoxy₁; 1,5-pentanediol, 2,4-dimethyl- n-polybutoxy₁₋₂; 1,5-pentanediol, 2-ethyl- polyethoxy₁₋₅; 1,5-pentanediol, 2-ethyl- n-polybutoxy₁₋₂; 1,5-pentanediol, 2-methyl- (Me-polyethoxy₁₋₄); 1,5-pentanediol, 2-methyl- polypropoxy₂; 1,5-pentanediol, 3,3-dimethyl-polyethoxy₁₋₇; 1,5-pentanediol, 3,3-dimethyl- polypropoxy₁; 1,5-pentanediol, 3,3-dimethyl- n-polybutoxy₁₋₂; 1,5-pentanediol, 3-methyl- (Me-polyethoxy₁₋₄); 1,5-pentanediol, 3-methyl- polypropoxy₂; 2,3-pentanediol, (Me-polyethoxy₁₋₃); 2,3-pentanediol, polypropoxy₂; 2,3-pentanediol, 2-methyl-polyethoxy₁₋₇; 2,3-pentanediol, 2-methyl- polypropoxy₁; 2,3-pentanediol, 2-methyl- n-polybutoxy₁₋₂; 2,3-pentanediol, 3-methyl- polyethoxy₁₋₇; 2,3-pentanediol, 3-methyl- polypropoxy₁; 2,3-pentanediol, 3-methyl- n-

polybutoxy₁₋₂; 2,3-pentanediol, 4-methyl- polyethoxy₁₋₇; 2,3-pentanediol, 4-methyl- polypropoxy₁; 2,3-pentanediol, 4-methyl- n-polybutoxy₁₋₂; 2,4-pentanediol, 2(Me-polyethoxy₁₋₄); 2,4-pentanediol polypropoxy₄; 2,4-pentanediol, 2,3-dimethyl- (Me-polyethoxy₁₋₄); 2,4-pentanediol, 2,3-dimethyl- polypropoxy₂; 2,4-pentanediol, 2,4-dimethyl- (Me-polyethoxy₁₋₄); 2,4-pentanediol, 2,4-dimethyl- polypropoxy₂; 2,4-pentanediol, 2-methyl- (Me-polyethoxy₅₋₁₀); 2,4-pentanediol, 2-methyl- polypropoxy₃; 2,4-pentanediol, 3,3-dimethyl- (Me-polyethoxy₁₋₄); 2,4-pentanediol, 3,3-dimethyl- polypropoxy₂; 2,4-pentanediol, 3-methyl- (Me-polyethoxy₅₋₁₀); 2,4-pentanediol, 3-methyl- polypropoxy₃;

4. 1,3-hexanediol (Me-polyethoxy₁₋₅); 1,3-hexanediol polypropoxy₂; 1,3-hexanediol polybutoxy₁; 1,3-hexanediol, 2-methyl- polyethoxy₂₋₉; 1,3-hexanediol, 2-methyl- polypropoxy₁; 1,3-hexanediol, 2-methyl- n-polybutoxy₁₋₃; 1,3-hexanediol, 2-methyl- polybutoxy₁; 1,3-hexanediol, 3-methyl- polyethoxy₂₋₉; 1,3-hexanediol, 3-methyl- polypropoxy₁; 1,3-hexanediol, 3-methyl- n-polybutoxy₁₋₃; 1,3-hexanediol, 4-methyl- polyethoxy₂₋₉; 1,3-hexanediol, 4-methyl- polypropoxy₁; 1,3-hexanediol, 4-methyl- n-polybutoxy₁₋₃; 1,3-hexanediol, 5-methyl- polyethoxy₂₋₉; 1,3-hexanediol, 5-methyl- polypropoxy₁; 1,3-hexanediol, 5-methyl- n-polybutoxy₁₋₃; 1,4-hexanediol (Me-polyethoxy₁₋₅); 1,4-hexanediol polypropoxy₂; 1,4-hexanediol polybutoxy₁; 1,4-hexanediol, 2-methyl- polyethoxy₂₋₉; 1,4-hexanediol, 2-methyl- polypropoxy₁; 1,4-hexanediol, 2-methyl- n-polybutoxy₁₋₃; 1,4-hexanediol, 3-methyl- polyethoxy₂₋₉; 1,4-hexanediol, 3-methyl- polypropoxy₁; 1,4-hexanediol, 3-methyl- n-polybutoxy₁₋₃; 1,4-hexanediol, 4-methyl- polyethoxy₂₋₉; 1,4-hexanediol, 4-methyl- polypropoxy₁; 1,4-hexanediol, 4-methyl- n-polybutoxy₁₋₃; 1,4-hexanediol, 5-methyl- polyethoxy₂₋₉; 1,4-hexanediol, 5-methyl- polypropoxy₁; 1,4-hexanediol, 5-methyl- n-polybutoxy₁₋₃; 1,5-hexanediol (Me-polyethoxy₁₋₅); 1,5-hexanediol polypropoxy₂; 1,5-hexanediol polybutoxy₁; 1,5-hexanediol, 2-methyl- polyethoxy₂₋₉; 1,5-hexanediol, 2-methyl- polypropoxy₁; 1,5-hexanediol, 2-methyl- n-polybutoxy₁₋₃; 1,5-hexanediol, 3-methyl- polyethoxy₂₋₉; 1,5-hexanediol, 3-methyl- polypropoxy₁; 1,5-hexanediol, 3-methyl- n-polybutoxy₁₋₃; 1,5-hexanediol, 4-methyl- polyethoxy₂₋₉; 1,5-hexanediol, 4-methyl- polypropoxy₁; 1,5-hexanediol, 4-methyl- n-polybutoxy₁₋₃; 1,5-hexanediol, 5-methyl- polyethoxy₂₋₉; 1,5-hexanediol, 5-methyl- polypropoxy₁; 1,5-hexanediol, 5-

methyl- n-polybutoxy₁₋₃; 1,6-hexanediol (Me-polyethoxy₁₋₂); 1,6-hexanediol polypropoxy₁₋₂; 1,6-hexanediol n-polybutoxy₄; 1,6-hexanediol, 2-methyl-polyethoxy₁₋₅; 1,6-hexanediol, 2-methyl- n-polybutoxy₁₋₂; 1,6-hexanediol, 3-methyl- polyethoxy₁₋₅; 1,6-hexanediol, 3-methyl- n-polybutoxy₁₋₂; 2,3-hexanediol polyethoxy₁₋₅; 2,3-hexanediol n-polybutoxy₁; 2,3-hexanediol polybutoxy₁; 2,4-hexanediol (Me-polyethoxy₃₋₈); 2,4-hexanediol polypropoxy₃; 2,4-hexanediol, 2-methyl- (Me-polyethoxy₁₋₂); 2,4-hexanediol 2-methyl- polypropoxy₁₋₂; 2,4-hexanediol, 3-methyl- (Me-polyethoxy₁₋₂); 2,4-hexanediol 3-methyl- polypropoxy₁₋₂; 2,4-hexanediol, 4-methyl- (Me-polyethoxy₁₋₂); 2,4-hexanediol 4-methyl- polypropoxy₁₋₂; 2,4-hexanediol, 5-methyl- (Me-polyethoxy₁₋₂); 2,4-hexanediol 5-methyl- polypropoxy₁₋₂; 2,5-hexanediol (Me-polyethoxy₃₋₈); 2,5-hexanediol polypropoxy₃; 2,5-hexanediol, 2-methyl- (Me-polyethoxy₁₋₂); 2,5-hexanediol 2-methyl-polypropoxy₁₋₂; 2,5-hexanediol, 3-methyl- (Me-polyethoxy₁₋₂); 2,5-hexanediol 3-methyl- polypropoxy₁₋₂; 3,4-hexanediol polyethoxy₁₋₅; 3,4-hexanediol n-polybutoxy₁; 3,4-hexanediol polybutoxy₁;

5. 1,3-heptanediol polyethoxy₁₋₇; 1,3-heptanediol polypropoxy₁; 1,3-heptanediol n-polybutoxy₁₋₂; 1,4-heptanediol polyethoxy₁₋₇; 1,4-heptanediol polypropoxy₁; 1,4-heptanediol n-polybutoxy₁₋₂; 1,5-heptanediol polyethoxy₁₋₇; 1,5-heptanediol polypropoxy₁; 1,5-heptanediol n-polybutoxy₁₋₂; 1,6-heptanediol polyethoxy₁₋₇; 1,6-heptanediol polypropoxy₁; 1,6-heptanediol n-polybutoxy₁₋₂; 1,7-heptanediol polyethoxy₁₋₂; 1,7-heptanediol n-polybutoxy₁; 2,4-heptanediol polyethoxy₃₋₁₀; 2,4-heptanediol (Me-polyethoxy₁); 2,4-heptanediol polypropoxy₁; 2,4-heptanediol n-polybutoxy₃; 2,5-heptanediol polyethoxy₃₋₁₀; 2,5-heptanediol (Me-polyethoxy₁); 2,5-heptanediol polypropoxy₁; 2,5-heptanediol n-polybutoxy₃; 2,6-heptanediol polyethoxy₃₋₁₀; 2,6-heptanediol (Me-polyethoxy₁); 2,6-heptanediol polypropoxy₁; 2,6-heptanediol n-polybutoxy₃; 3,5-heptanediol polyethoxy₃₋₁₀; 3,5-heptanediol (Me-polyethoxy₁); 3,5-heptanediol polypropoxy₁; 3,5-heptanediol n-polybutoxy₃;
6. 1,3-butanediol, 3-methyl-2-isopropyl- polypropoxy₁; 2,4-pentanediol, 2,3,3-trimethyl- polypropoxy₁; 1,3-butanediol, 2,2-diethyl- polyethoxy₂₋₅; 2,4-hexanediol, 2,3-dimethyl- polyethoxy₂₋₅; 2,4-hexanediol, 2,4-dimethyl- polyethoxy₂₋₅; 2,4-hexanediol, 2,5-dimethyl- polyethoxy₂₋₅; 2,4-hexanediol, 3,3-dimethyl- polyethoxy₂₋₅; 2,4-hexanediol, 3,4-dimethyl- polyethoxy₂₋₅; 2,4-hexanediol, 3,5-dimethyl- polyethoxy₂₋₅; 2,4-hexanediol, 4,5-dimethyl-

polyethoxy₂₋₅; 2,4-hexanediol, 5,5-dimethyl- polyethoxy₂₋₅; 2,5-hexanediol,
 2,3-dimethyl- polyethoxy₂₋₅; 2,5-hexanediol, 2,4-dimethyl- polyethoxy₂₋₅;
 2,5-hexanediol, 2,5-dimethyl- polyethoxy₂₋₅; 2,5-hexanediol, 3,3-dimethyl-
 polyethoxy₂₋₅; 2,5-hexanediol, 3,4-dimethyl- polyethoxy₂₋₅; 3,5-heptanediol,
 3-methyl- polyethoxy₂₋₅; 1,3-butanediol, 2,2-diethyl- n-polybutoxy₁₋₂; 2,4-
 hexanediol, 2,3-dimethyl- n-polybutoxy₁₋₂; 2,4-hexanediol, 2,4-dimethyl- n-
 polybutoxy₁₋₂; 2,4-hexanediol, 2,5-dimethyl- n-polybutoxy₁₋₂; 2,4-
 hexanediol, 3,3-dimethyl- n-polybutoxy₁₋₂; 2,4-hexanediol, 3,4-dimethyl- n-
 polybutoxy₁₋₂; 2,4-hexanediol, 3,5-dimethyl- n-polybutoxy₁₋₂; 2,4-
 hexanediol, 4,5-dimethyl- n-polybutoxy₁₋₂; 2,4-hexanediol, 5,5-dimethyl- n-
 polybutoxy₁₋₂; 2,5-hexanediol, 2,3-dimethyl- n-polybutoxy₁₋₂; 2,5-
 hexanediol, 2,4-dimethyl- n-polybutoxy₁₋₂; 2,5-hexanediol, 2,5-dimethyl- n-
 polybutoxy₁₋₂; 2,5-hexanediol, 3,3-dimethyl- n-polybutoxy₁₋₂; 2,5-
 hexanediol, 3,4-dimethyl- n-polybutoxy₁₋₂; 3,5-heptanediol, 3-methyl- n-
 polybutoxy₁₋₂; 1,3-propanediol, 2-(1,2-dimethylpropyl)- n-polybutoxy₁; 1,3-
 butanediol, 2-ethyl-2,3-dimethyl- n-polybutoxy₁; 1,3-butanediol, 2-methyl-2-
 isopropyl- n-polybutoxy₁; 1,4-butanediol, 3-methyl-2-isopropyl- n-
 polybutoxy₁; 1,3-pentanediol, 2,2,3-trimethyl- n-polybutoxy₁; 1,3-
 pentanediol, 2,2,4-trimethyl- n-polybutoxy₁; 1,3-pentanediol, 2,4,4-trimethyl-
 n-polybutoxy₁; 1,3-pentanediol, 3,4,4-trimethyl- n-polybutoxy₁; 1,4-
 pentanediol, 2,2,3-trimethyl- n-polybutoxy₁; 1,4-pentanediol, 2,2,4-trimethyl-
 n-polybutoxy₁; 1,4-pentanediol, 2,3,3-trimethyl- n-polybutoxy₁; 1,4-
 pentanediol, 2,3,4-trimethyl- n-polybutoxy₁; 1,4-pentanediol, 3,3,4-trimethyl-
 n-polybutoxy₁; 2,4-pentanediol, 2,3,4-trimethyl- n-polybutoxy₁; 2,4-
 hexanediol, 4-ethyl- n-polybutoxy₁; 2,4-heptanediol, 2-methyl- n-
 polybutoxy₁; 2,4-heptanediol, 3-methyl- n-polybutoxy₁; 2,4-heptanediol, 4-
 methyl- n-polybutoxy₁; 2,4-heptanediol, 5-methyl- n-polybutoxy₁; 2,4-
 heptanediol, 6-methyl- n-polybutoxy₁; 2,5-heptanediol, 2-methyl- n-
 polybutoxy₁; 2,5-heptanediol, 3-methyl- n-polybutoxy₁; 2,5-heptanediol, 4-
 methyl- n-polybutoxy₁; 2,5-heptanediol, 5-methyl- n-polybutoxy₁; 2,5-
 heptanediol, 6-methyl- n-polybutoxy₁; 2,6-heptanediol, 2-methyl- n-
 polybutoxy₁; 2,6-heptanediol, 3-methyl- n-polybutoxy₁; 2,6-heptanediol, 4-
 methyl- n-polybutoxy₁; 3,5-heptanediol, 2-methyl- n-polybutoxy₁; 1,3-
 propanediol, 2-(1,2-dimethylpropyl)- polyethoxy₁₋₃; 1,3-butanediol, 2-ethyl-
 2,3-dimethyl- polyethoxy₁₋₃; 1,3-butanediol, 2-methyl-2-isopropyl-
 polyethoxy₁₋₃; 1,4-butanediol, 3-methyl-2-isopropyl- polyethoxy₁₋₃; 1,3-

pentanediol, 2,2,3-trimethyl- polyethoxy₁₋₃; 1,3-pentanediol, 2,2,4-trimethyl- polyethoxy₁₋₃; 1,3-pentanediol, 2,4,4-trimethyl- polyethoxy₁₋₃; 1,3-pentanediol, 3,4,4-trimethyl- polyethoxy₁₋₃; 1,4-pentanediol, 2,2,3-trimethyl- polyethoxy₁₋₃; 1,4-pentanediol, 2,2,4-trimethyl- polyethoxy₁₋₃; 1,4-pentanediol, 2,3,3-trimethyl- polyethoxy₁₋₃; 1,4-pentanediol, 2,3,4-trimethyl- polyethoxy₁₋₃; 1,4-pentanediol, 3,3,4-trimethyl- polyethoxy₁₋₃; 2,4-pentanediol, 2,3,4-trimethyl- polyethoxy₁₋₃; 2,4-hexanediol, 4-ethyl- polyethoxy₁₋₃; 2,4-heptanediol, 2-methyl- polyethoxy₁₋₃; 2,4-heptanediol, 3-methyl- polyethoxy₁₋₃; 2,4-heptanediol, 4-methyl- polyethoxy₁₋₃; 2,4-heptanediol, 5-methyl- polyethoxy₁₋₃; 2,4-heptanediol, 6-methyl- polyethoxy₁₋₃; 2,5-heptanediol, 2-methyl- polyethoxy₁₋₃; 2,5-heptanediol, 3-methyl- polyethoxy₁₋₃; 2,5-heptanediol, 4-methyl- polyethoxy₁₋₃; 2,5-heptanediol, 5-methyl- polyethoxy₁₋₃; 2,5-heptanediol, 6-methyl- polyethoxy₁₋₃; 2,6-heptanediol, 2-methyl- polyethoxy₁₋₃; 2,6-heptanediol, 3-methyl- polyethoxy₁₋₃; 2,6-heptanediol, 4-methyl- polyethoxy₁₋₃; and/or 3,5-heptanediol, 2-methyl- polyethoxy₁₋₃;

IX. mixtures thereof;

with the exception of the following specific unsaturated compounds: 3,7-Octadiene-2,5-diol, 2,7-dimethyl-; 4,6-Octadiene-1,2-diol, 3,5-dimethyl-; 4,6-Octadiene-1,2-diol, 3,5-dimethyl-; 4,6-Octadiene-1,2-diol, 3,5-dimethyl-; 1-Hexene-3,4-diol, 5,5-dimethyl-; 6-Heptene-1,4-diol, 4-methyl-; 4-Octene-3,6-diol; 4-Octene-3,6-diol; 3-Octene-1,2-diol; 3-Nonene-2,5-diol; 7-Nonene-4,5-diol; 7-Nonene-4,5-diol; 6-Nonene-2,3-diol; 6-Heptene-2,4-diol, 5-methyl-; 6-Octene-1,2-diol, 7-methyl-3-methylene-; 2,7-Octadiene-1,6-diol, 2,6-dimethyl-; 1,3-Propanediol, 2-(2-methylenepentyl)-; 3-Heptene-2,6-diol, 2,6-dimethyl-; 3-Heptene-2,6-diol, 2,6-dimethyl-; 5-Hexene-2,4-diol, 3,5-dimethyl-; 4-Hexene-1,2-diol, 2,5-dimethyl-; 4-Hexene-1,2-diol, 2,5-dimethyl-; 7-Octene-1,6-diol; 2-Hexene-1,4-diol, 2,5-dimethyl-; 2-Hexene-1,4-diol, 2,5-dimethyl-; 1,4-Hexanediol, 5-methyl-2-methylene-; 4-Octene-2,3-diol; Nonene-1,4-diol; 6-Heptene-1,4-diol, 4-methyl-; 6-Octene-3,5-diol, 4-methyl-; 2,6-Octadiene-1,8-diol, 2,6-dimethyl-; (8-Hydroxygeraniol); 1-Heptene-3,5-diol, 2,4-dimethyl- 2,4-Hexanediol, 5-methyl-3-methylene-; 2,4-Hexanediol, 5-methyl-3-methylene-; 5-Hexene-2,4-diol, 3-ethenyl-2,5-dimethyl-; 5-Hexene-2,4-diol, 3-ethenyl-2,5-dimethyl-; 6-Heptene-2,4-diol, 5-methyl-; 4,9-Decadiene-1,8-diol; 5-Hexene-1,3-diol, 2,4-dimethyl-; 7-Octene-1,3-diol, 2-methyl-; 5-Heptene-3-d-1,2-diol, 2,6-dimethyl-; 5-Heptene-3-d-1,2-diol, 2,6-dimethyl-; 4-Nonene-2,8-diol; 4-Nonene-2,8-diol; 5-

Hexene-2,3-diol, 2,3-dimethyl-; 2-Butene-1,4-diol, 2-butyl-; 2,4-Hexadiene-1,6-diol, 3-(1,1-dimethylethyl)-; 6-Octene-1,4-diol, 7-methyl-; 6-Heptene-1,4-diol, 5,6-dimethyl-; 6-Heptene-1,4-diol, 5,6-dimethyl-; 7-Octene-2,5-diol, 7-methyl-; 7-Octene-2,5-diol, 7-methyl-; 4-Hexene-1,3-diol, 2,4-dimethyl-; 4-Octene-2,7-diol; 4-Octene-2,7-diol; 3-Heptene-1,2-diol, 5-methyl-; 3-Heptene-1,2-diol, 5-methyl-; 3,7-Octadiene-2,6-diol, 2,6-dimethyl-; 8-Nonene-1,7-diol; 2,6-Octadiene-1,4-diol, 3,7-dimethyl-; 5-Hexene-1,4-diol, 2,4-dimethyl-; 1-Heptene-3,4-diol, 6-methyl-; 3-Heptene-1,5-diol, 4,6-dimethyl-; 3-Octene-1,5-diol, 4-methyl-; 3,9-Decadiene-1,2-diol; 7-Octene-2,3-diol, 2-methyl-; 7-Octene-2,3-diol, 2-methyl-; 6-Nonene-2,3-diol; 2,5-Hexanediol, 3-methyl-4-methylene-; 6-Heptene-1,4-diol, 2-methyl-; 6-Octene-1,5-diol; 1-Octene-3,4-diol; 7-Octene-1,6-diol, 5-methyl-; 7-Octene-1,6-diol, 5-methyl-; 1,3-Butanediol, 2-methyl-2-(1-methylethenyl)-; 1,3-Pentanediol, 2-ethenyl-4,4-dimethyl-; 3,5-Octanediol, 4-methylene-; 3,5-Octanediol, 4-methylene-; 6-Heptene-2,3-diol, 2-methyl-; 6-Heptene-2,3-diol, 2,6-dimethyl-; 6-Heptene-2,3-diol, 2-methyl-; 7-Octene-1,3-diol, 4-methyl-; 1,3-Butanediol, 2-methyl-2-(1-methyl-2-propenyl)-; 5-Heptene-1,2-diol, 2,6-dimethyl-; 1-Nonene-3,4-diol; 5-Heptene-1,2-diol, 3-methyl-; 3,7-Octadiene-2,6-diol, 2,6-dimethyl-; 6-Heptene-1,3-diol, 2,2-dimethyl-; 4-Nonene-1,3-diol; 1,4-Pentanediol, 3-methyl-2-(2-propenyl)-; 1-Nonene-3,4-diol; 8-Nonene-1,2-diol; 3-Octene-1,2-diol; 1,9-Decadiene-4,6-diol; 1,9-Decadiene-4,6-diol; 5-Hexene-1,3-diol, 2,2-dimethyl-; 1,3-Propanediol, 2-(1-pentenyl)-; 1,3-Propanediol, 2-(3-methyl-1-butenyl)-; 1,3-Propanediol, 2-(3-methyl-1-butenyl)-; 8-Nonene-1,3-diol; 2,4-Octadiene-1,8-diol, 2,7-dimethyl-; 5-Heptene-1,2-diol, 6-methyl-; 3,9-Decadiene-1,2-diol; 3-Nonene-1,2-diol; 6-Nonene-1,2-diol; 4-Hexene-1,3-diol, 2,4-dimethyl-; 2,4-Octadiene-1,7-diol, 3,7-dimethyl-; 4-Hexene-2,3-diol, 3,4-dimethyl-; 4-Hexene-2,3-diol, 3,4-dimethyl-; 4-Hexene-2,3-diol, 3,4-dimethyl-; 4-Hexene-2,3-diol, 3,4-dimethyl-; 5-Hexene-2,3-diol, 3,4-dimethyl-; 5-Hexene-2,3-diol, 3,4-dimethyl-; 5-Hexene-2,3-diol, 3,4-dimethyl-; 1,3-Butanediol, 2-methyl-2-(2-propenyl)-; 6-Heptene-2,5-diol, 4,6-dimethyl-; 6-Heptene-1,5-diol, 6-methyl-; 6-Heptene-2,5-diol, 4,6-dimethyl-; 1,5-Pentanediol, 2-(2-propenyl)-; 5-Hexene-2,3-diol, 3,5-dimethyl-; 5-Hexene-2,3-diol, 3,5-dimethyl-; Nonenediol; Octenediol; 5-Hexene-1,3-diol, 3,5-dimethyl-; 4-Nonene-1,8-diol; 4-Nonene-1,7-diol; 4-Nonene-1,6-diol; 6-Nonene-1,4-diol; 2-Nonene-1,4-diol; 8-Nonene-2,5-diol; 5-Heptene-1,2-diol, 2-ethenyl-6-methyl-; 4-Hexene-2,3-diol, 2,5-dimethyl-; 5-Heptene-2,3-diol, 2,6-dimethyl-; 1-Heptene-3,5-diol, 2,6-dimethyl-; 1-Heptene-3,5-diol, 2,6-dimethyl-; 7-Octene-1,3-diol, 7-methyl-; 1,3-Propanediol, 2-methyl-2-(3-methyl-3-butenyl)-; 5-Heptene-1,2-diol, 2,6-dimethyl-; 5,7-Octadiene-2,3-diol, 2,6-dimethyl-; 5,7-Octadiene-2,3-diol, 2,6-dimethyl-; 5-Hexene-1,2-diol, 2-ethyl-;

2,4-Nonadiene-4-d-1,7-diol, 6-methyl-; 2,4-Nonadiene-1,6,7-d3-1,7-diol, 6-methyl-;
 2,4-Nonadiene-1,7-diol, 6-methyl-; 7-Octene-2,3-diol, 2-methyl-6-methylene-; 1,3-
 Butanediol, 3-methyl-2-(4-pentenylidene)-; 1,3-Butanediol, 3-methyl-2-(4-
 pentenylidene)-; 2-Hexene-1,4-diol, 5,5-dimethyl-; 2-Hexene-1,4-diol, 5,5-dimethyl-;
 2-Nonene-1,4-diol; 2-Nonene-1,4-diol; 7-Octene-2,3-diol, 2-methyl-6-methylene-; 5-
 Octene-1,3-diol; 7-Octene-1,3-diol, 2-methyl-; 4-Heptene-1,3-diol, 2-methyl-; 4-
 Octene-2,3-d2-1,2-diol; 4-Octene-2,3-d2-1,2-diol; 5-Heptene-1,2-diol, 3-methyl-; 5-
 Octene-1,2-diol; 3,7-Octadiene-1,6-diol, 2,6-dimethyl-; 5-Heptene-1,2-diol, 2,6-
 dimethyl-; 1,7-Octadiene-4,5-diol, 4,5-dimethyl-; 1,7-Octadiene-4,5-diol, 4,5-dimethyl-
 ; 5-Heptene-1,3-diol, 2-methyl-; 5-Heptene-1,3-diol, 2-methyl-; 3-Hexene-1,6-diol,
 3,4-dimethyl-; 3-Hexene-1,6-diol, 3,4-dimethyl-; 2,6-Octadiene-1-t-1,8-diol, 2,6-
 dimethyl-; 2,6-Octadiene-1-t-1,8-diol, 2,6-dimethyl-; 2,6-Octadiene-1-d-1,8-diol, 2,6-
 dimethyl-; 2,6-Octadiene-1-d-1-t-1,8-diol, 2,6-dimethyl-; 2,6-Octadiene-1-d-1-t-1,8-
 diol, 2,6-dimethyl-; 2,6-Octadiene-1-d-1,8-diol, 2,6-dimethyl-; 2-Heptene-1,5-diol, 6-
 methyl-; 2-Heptene-1,5-diol, 6-methyl-; 8,9-Decadiene-3,5-diol; 8,9-Decadiene-3,5-
 diol; 4,6-Nonadiene-1,3-diol, 8-methyl-; 3,5-Nonadiene-1,7-diol, 8-methyl-; 5-
 Heptene-1,3-diol, 2,4-dimethyl-; 2-Nonene-1,9-diol; 2-Nonene-1,9-diol; 1,3-
 Butanediol, 2-ethyl-2-(2-propenyl)-; 3-Heptene-1,5-diol, 6-methyl-; 1,3-Pentanediol,
 2-ethenyl-4-methyl-; 1,3-Pentanediol, 2-ethenyl-4-methyl-; 5-Hexene-2,3-diol, 3,4-
 dimethyl-; 5-Hexene-2,3-diol, 2,3,4-trimethyl-; 4-Pentene-1,2-diol, 2,3,3-trimethyl-;
 1,3-Propanediol, 2-(2-methyl-2-propenyl)-2-(2-propenyl)-; 1,3-Propanediol, 2-(2-
 butenyl)-2-(2-propenyl)-; 5-Hexene-1,2-diol, 2-ethyl-, 1,4-Butanediol, 2-(4-methyl-3-
 pentenylidene)-; 6-Heptene-1,3-diol, 2-methyl-; 2,6-Octadiene-1,8-diol-2-13C, 2,6-
 dimethyl-; 1-Hexene-3,4-diol, 5,5-dimethyl-; 1-Hexene-3,4-diol, 5,5-dimethyl-; 1-
 Nonene-3,4-diol; 8-Nonene-2,4-diol; 8-Nonene-2,4-diol; 7-Octene-1,2-diol, 2-methyl-;
 1-Nonene-3,5-diol; 2,7-Octadiene-1,6-diol, 2,6-dimethyl-; 7-Octene-1,2-diol; 7-
 Octene-1,2-diol; 2,5-Octadiene-1,7-diol, 3,7-dimethyl-; 1,3-Propanediol, 2-(2,2-
 dimethylpropylidene)-; 6-Octene-1,2-diol, 7-methyl-3-methylene-; 2,8-Decadiene-
 1,10-diol; 6-Octene-1,5-diol, 7-methyl-; 1,3-Butanediol, 2-(1-ethyl-1-propenyl)-; 4-
 Hexene-1,2-diol, 4-ethyl-3-methyl-; 8-Nonene-1,3-diol; 1,4-Butanediol, 2-(3-methyl-2-
 butenyl)-3-methylene-; 2,6-Heptadiene-1,4-diol, 2,5,5-trimethyl-; 2,6-Heptadiene-1,4-
 diol, 2,5,5-trimethyl-; 8-Nonene-2,4-diol; 2,6-Heptanediol, 4-methylene-; 3-Hexene-
 3,4-diol, 2,5-dimethyl-; 4-Octene-4,5-diol; 5-Hexene-1,2-diol, 2,3-dimethyl-; 3-
 Hexene-1,6-diol, 2-ethenyl-2,5-dimethyl-; 3-Hexene-1,5-diol, 2,4-dimethyl-; 3-
 Hexene-1,5-diol, 2,4-dimethyl-; 3,7-Octadiene-2,6-diol, 2,6-dimethyl-; 3,6-Octadiene-
 1,2-diol, 3,7-dimethyl-; 7-Octene-2,3-diol, 6-methyl-; 7-Octene-2,3-diol, 6-methyl-; 7-

Octene-2,3-diol, 6-methyl-; 2,5-Octadiene-1,7-diol, 3,7-dimethyl-; 6-Octene-1,3-diol, 7-methyl-; Decadienediol; 6-Heptene-1,2-diol, 2,3-dimethyl-; 4-Hexene-1,3-diol, 3,5-dimethyl-; 4-Pentene-1,3-diol, 2-(1,1-dimethylethyl)-; 4-Pentene-1,3-diol, 2-(1,1-dimethylethyl)-; 1-Heptene-3,5-diol, 6,6-dimethyl-; 1-Heptene-3,5-diol, 6,6-dimethyl-; 1,3-Hexanediol, 5-methyl-4-methylene-; 4-Octene-1,2-diol; 2,3-Heptanediol, 3-ethenyl-; 2,3-Heptanediol, 3-ethenyl-; 5-Hexene-1,3-diol, 2,4-dimethyl-; 5-Hexene-1,3-diol, 2,4-dimethyl-; 2,6-Octadiene-1-t-1,8-diol, 3,7-dimethyl-; 8-Nonene-2,4-diol; 8-Nonene-2,4-diol; 1,3-Octanediol, 2-methylene-; 8-Nonene-1,3-diol; 5-Heptene-1,4-diol, 3,6-dimethyl-; 5-Heptene-1,4-diol, 2,6-dimethyl-; 4-Octene-2,3-diol; 4-Octene-2,3-diol; 5,7-Octadiene-1,4-diol, 2,7-dimethyl-; 7-Octene-1,3-diol, 7-methyl-; 2-Heptene-1,5-diol, 5-ethyl-; 2-Heptene-1,5-diol, 5-ethyl-; 1,3-Pentanediol, 2-ethenyl-3-ethyl-; 5-Heptene-2,4-diol, 2,3-dimethyl-; 5-Heptene-2,4-diol, 2,3-dimethyl-; 8-Nonene-3,4-diol; 8-Nonene-3,4-diol; 5-Hexene-1,3-diol, 4,5-dimethyl-; 5-Hexene-1,3-diol, 4,5-dimethyl-; 4,6-Octadiene-2,3-diol, 3,7-dimethyl-; 1,3-Butanediol, 2,2-diallyl-; 1,9-Decadiene-3,8-diol; 2-Heptene-1,4-diol, 5,6-dimethyl-; 2-Heptene-1,4-diol, 5-methyl-; 2-Heptene-1,4-diol, 5,6-dimethyl-; 2-Heptene-1,4-diol, 5-methyl-; 2,8-Decadiene-5,6-diol; 2,7-Octadiene-1,6-diol, 2,6-dimethyl- (8-Hydroxylinalool); 6-Heptene-1,2-diol, 2-methyl-; 5-Hexene-1,3-diol, 2,3-dimethyl-; 2,6-Octadiene-1,8-diol, 6-methyl-2-(methyl-13C)-; 1,3-Propanediol, 2-(5-hexenyl)-; 8-Nonene-3,4-diol; 5-Hexene-1,3-diol, 3-ethyl-; 7-Octene-3,4-diol; 6-Heptene-1,2-diol, 2-methyl-; 6-Heptene-2,4-diol, 4-(2-propenyl)-; 2,6-Octadiene-1,4-diol, 3,7-dimethyl-; 8-Nonene-3,4-diol; 6-Heptene-2,3-diol, 6-methyl-; 6-Heptene-2,3-diol, 2,6-dimethyl-; 4-Hexene-2,3-diol, 2,5-dimethyl-; 4,6-Octadiene-2,3-diol, 2,6-dimethyl-; 7-Octene-2,3-diol, 2-methyl-6-methylene-; 7-Octene-2,3-diol, 6-methyl-; 4,6-Octadiene-2,3-diol, 2,6-dimethyl-; 1,4-Heptanediol, 6-methyl-5-methylene-; 2-Butene-1,4-diol, 2-(4-methyl-3-pentenyl)-; 4-Octene-1,2-diol; 4-Octene-1,2-diol; 7-Octene-2,4-diol; 6-Heptene-2,4-diol, 3-methyl-; 6-Heptene-2,4-diol, 3-methyl-; 3-Heptene-2,5-diol, 2,4-dimethyl-; 1,3-Butanediol, 2-(3-methyl-2-butenyl)-; 7-Octene-3,5-diol, 2-methyl-; 7-Octene-3,5-diol, 2-methyl-; 6-Heptene-2,4-diol, 5,5-dimethyl-; 6-Heptene-2,4-diol, 5,5-dimethyl-; 1,3-Propanediol, 2-methyl-2-(2-methylallyl)-; 2-Heptene-1,6-diol, 6-methyl-; 1,3-Butanediol, 2-allyl-3-methyl-; 2-Nonene-1,4-diol; 5-Hexene-2,3-diol, 4-ethenyl-2,5-dimethyl-; 5-Hexene-2,3-diol, 4-ethenyl-2,5-dimethyl-2-Nonene-1,4-diol; 5-Heptene-1,3-diol, 3,6-dimethyl-; 1,5-Hexanediol, 2-(1-methylethenyl)-; and 1,3-Propanediol, 2-(1-pentenyl)-.

128. The principal solvent of Claim 124, that is a mixture of the compounds A., B., and/or C.

129. The principal solvent of Claim 124, which is a mixture of 8-carbon-diol isomers consisting essentially of: 2,2,4-trimethyl-1,3-pentanediol; 2-ethyl-1,3-hexanediol; 2,2-dimethyl-1,3-hexanediol; 2-ethyl-4-methyl-1,3-pentanediol; 2-ethyl-3-methyl-1,3-pentanediol; 3,5-octanediol; 2,2-dimethyl-2,4-hexanediol; 2-methyl-3,5-heptanediol; and/or 3-methyl-3,5-heptanediol, the level of any individual diol isomer being less than about 90% of any mixture.

130. The principal solvent of Claim 129, wherein the level of any individual diol isomer is less than about 80% of any mixture.

131. The principal solvent of Claim 129, wherein the level of any individual diol isomer is less than about 70% of any mixture.

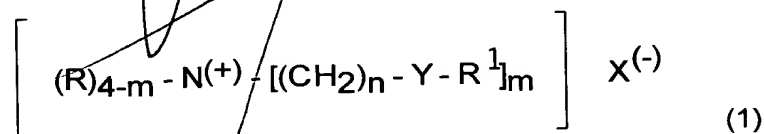
132. The principal solvent of Claim 129, wherein the level of any individual diol isomer is less than about 60% of any mixture.

133. The principal solvent of Claim 129, wherein the level of any individual diol isomer is less than about 50% of any mixture.

134. An aqueous, stable, fabric softener composition comprising:

A. from about 2% to about 80% of fabric softener active selected from the group consisting of:

1. fabric softener compound having the formula:



wherein each R substituent is H, or a short chain C₁-C₆ alkyl or hydroxyalkyl group, benzyl, or mixtures thereof;

each m is 2 or 3;

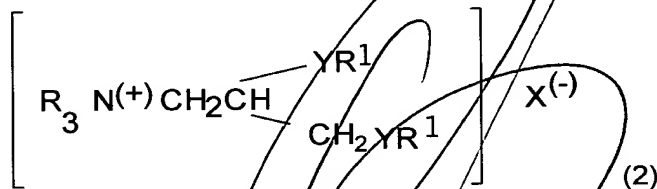
each n is from 1 to about 4;

each Y is -O-(O)C-, -(R)N-(O)C-, -C(O)-N(R)-, or -C(O)-O-, but not -OC(O)O-;

each R¹ is a long chain hydrocarbyl, or substituted hydrocarbyl substituent group;

the sum of carbons in each R¹, or YR¹ when Y is -O-(O)C- or -(R)N-(O)C-, is C₆-C₂₂; and when the sum of carbons in one R¹, or YR¹, is less than about 12, then the said sum of carbon atoms in the other R¹, or YR¹, is at least about 16; and when R¹, or YR¹, is a C₁₆-C₂₀ hydrocarbyl or substituted hydrocarbyl substituent group, the Iodine Value of a YR¹ fatty acid which contains this R¹ group is from about 20 to about 140; and when R¹, or YR¹, is a C₈-C₁₄, hydrocarbyl, or substituted hydrocarbyl substituent group, the Iodine Value of a fatty acid which contains this R¹ group is about 10 or less;

2. fabric softener compound having the formula:



wherein each Y, R, R¹, and X⁽⁻⁾ have the same meanings as before; and

3. mixtures thereof;

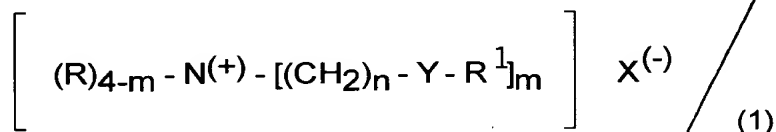
- B. less than about 40% by weight of the composition of principal solvent having a ClogP of from about 0.15 to about 0.64, and which are not symmetrical, said principal solvent optionally comprising levels of solvents selected from the group consisting of: n-propanol; 2,2,4-trimethyl-1,3-pentane diol; the ethoxylate, diethoxylate, or triethoxylate derivatives of 2,2,4-trimethyl-1,3-pentane diol; 2-ethylhexyl-1,3-diol, and mixtures thereof, which are insufficient to provide an aqueous stable composition when used by themselves at said levels;
- c. optionally, an effective level, sufficient to improve clarity, of low molecular weight water soluble solvents selected from the group consisting of: ethanol, isopropanol, propylene glycol, 1,3-propanediol, and propylene carbonate, and mixtures thereof, said water soluble solvents being at a level that will not form clear compositions when used by themselves at that level;

- D. optionally, an effective amount to improve clarity, of water soluble calcium and/or magnesium salt; and
 E. the balance being water.

135. The aqueous, stable, fabric softener composition of Claim 134, comprising:

A. from about 13% to about 75% of said fabric softener active selected from the group consisting of:

1. fabric softener compound having the formula:



wherein each R substituent is H, or a short chain C₁-C₃ alkyl or hydroxyalkyl group, benzyl or mixtures thereof;

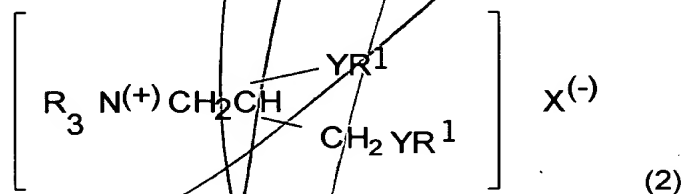
each m is 2; each n is from 2 to about 3;

each Y is -O-(O)C-;

each R¹ is a long chain C₉-C₁₉ hydrocarbyl,

and when R¹ is a C₁₅-C₁₉ hydrocarbyl or substituted hydrocarbyl substituent group, the Iodine Value of a fatty acid containing this R¹ group is from about 50 to about 130; and when R¹ is a C₇-C₁₃ hydrocarbyl or substituted hydrocarbyl substituent group, the Iodine Value of a fatty acid containing this R¹ group is about 10 or less;

2. fabric softener compound having the formula:



wherein each Y, R, R¹, and X⁽⁻⁾ have the same meanings as before; and

3. mixtures thereof;

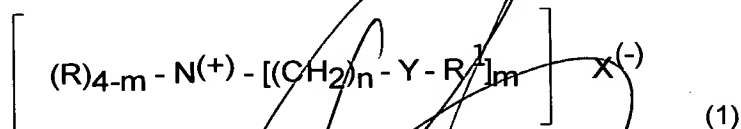
B. from about 10% to about 35% by weight of the composition of said principal solvent, said principal solvent having a ClogP of from about 0.25 to about 0.62, excluding n-propanol;

- C. optionally, from about 1% to about 10%, and sufficient to improve clarity, of low molecular weight water soluble solvents selected from the group consisting of: ethanol, isopropanol, propylene glycol, 1,3-propanediol, propylene carbonate, and mixtures thereof, said water soluble solvents being unable to form clear compositions by themselves at this level;
- D. optionally, from 0% to about 2%, and sufficient to improve clarity, modify viscosity, or improve clarity and achieve the desired viscosity, of water soluble calcium and/or magnesium salt; and
- E. from about 10% to about 80% water.

136. The aqueous, stable, fabric softener composition of Claim 135, comprising:

- A. from about 17% to about 70% of said fabric softener active selected from the group consisting of:

1. fabric softener compound having the formula:



wherein each R substituent is H, or a short chain C₁-C₃ alkyl or hydroxyalkyl group, benzyl or mixtures thereof;

each m is 2;

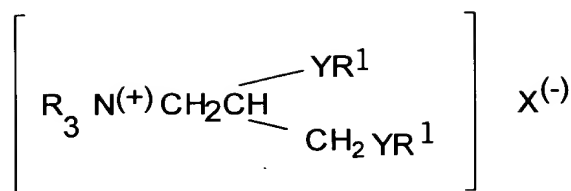
each n is from 2 to about 3;

each Y is -O-(O)C-;

each R¹ is a long chain C₇-C₁₇ hydrocarbyl, or substituted hydrocarbyl substituent;

and when R¹ is a C₁₅-C₁₇ hydrocarbyl or substituted hydrocarbyl substituent group, the Iodine Value of a fatty acid containing this R¹ group is from about 70 to about 115; and when R¹ is a C₇-C₁₃, or substituted hydrocarbyl substituent group, the Iodine Value of a fatty acid containing this R¹ group is about 5 or less;

2. fabric softener compound having the formula:

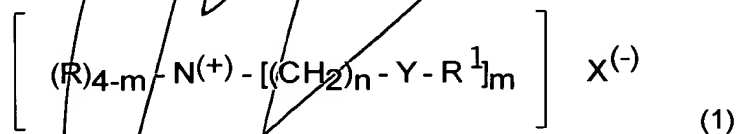


wherein each Y, R, R¹, and X⁽⁻⁾ have the same meanings as before; and

3. mixtures thereof;
- B. from about 12% to about 35% by weight of the composition of said principal solvent, said principal solvent having a ClogP of from about 0.40 to about 0.60;
- C. optionally, from about 2% to 8%, and sufficient to improve clarity, of low molecular weight water soluble solvents selected from the group consisting of: ethanol, isopropanol, propylene glycol, 1,3-propanediol, propylene carbonate, and mixtures thereof;
- D. optionally, from about 0.05% to about 0.5%, and sufficient to improve clarity, modify viscosity, or improve clarity and achieve the desired viscosity, of water soluble calcium and/or magnesium salt; and
- E. from about 20% to about 80% water.

137. The aqueous, stable, fabric softener composition of Claim 136, said composition being clear and comprising:

- A. from about 19% to about 65% by weight of the composition, of said fabric softener:
 1. fabric softener compound having the formula:



wherein each R substituent is methyl, ethyl, propyl, hydroxyethyl, benzyl or mixtures thereof;

each n is 2;

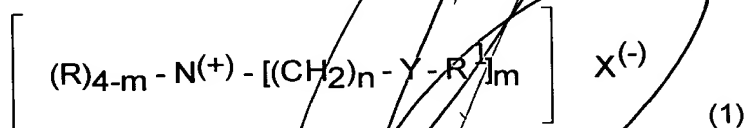
each R¹ is a long chain C₁₃-C₁₇ straight chain alkyl or alkylene, and

when R¹ is a C₁₅-C₁₇ hydrocarbyl or substituted hydrocarbyl substituent group, the Iodine Value of a fatty acid containing this R¹ group is from about 70 to about 115;

- B. from about 14% to about 35% by weight of the composition of said principal solvent, said principal solvent having a ClogP of from about 0.40 to about 0.60;
- C. optionally, from about 2% to 8%, and sufficient to improve clarity, of low molecular weight water soluble solvents selected from the group consisting of: ethanol, isopropanol, propylene glycol, 1,3-propanediol, and propylene carbonate;
- D. optionally, from about 0.1% to about 0.25%, and sufficient to improve clarity, modify viscosity, or improve clarity and achieve the desired viscosity, of water soluble calcium or magnesium chloride, acetate, or nitrate; and
- E. from about 30% to about 70% water.

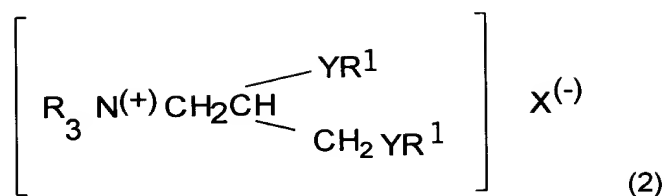
138. A composition comprising:

- A. from about 2% to about 80% of biodegradable fabric softener active selected from the group consisting of:
 - 1. softener having the formula:



wherein each R substituent is H, or a short chain C₁-C₆ alkyl or hydroxyalkyl group, benzyl, or mixtures thereof; each m is 2 or 3; each n is from 1 to about 4; each Y is -O(O)C-, -(R)N(O)C-, -C(O)-N(R)-, or -C(O)-O-, the sum of carbons in each R¹ or YR¹ plus one when Y is -O(O)C- or -(R)N(O)C-, being C₆-C₂₂, but when one R¹ or YR¹ sum of carbons is less than about 12, then the sum of carbons in the other R¹ or YR¹ is at least about 16, with each R¹ being a long chain hydrocarbyl, or substituted hydrocarbyl substituent, and for R¹ or YR¹ comprising a C₁₅-C₂₁ straight chain alkyl or alkylene group, the Iodine Value of a fatty acid which contains this R¹ group being from about 20 to about 140, and wherein the counterion, X⁻, can be any softener-compatible anion;

- 2. softener having the formula:



wherein each Y, R, R¹, and X⁽⁻⁾ have the same meanings as before; and

3. mixtures thereof;

B. less than about 40% by weight of the composition of principal alcohol solvent selected from the group consisting of:

- I. mono-ols selected from the group consisting of: 2-butanol and/or 2-methyl-2-propanol;
- II. hexane diol isomers selected from the group consisting of: 2,3-butanediol, 2,3-dimethyl-; 1,2-butanediol, 2,3-dimethyl-; 1,2-butanediol, 3,3-dimethyl-; 2,3-pentanediol, 2-methyl-; 2,3-pentanediol, 3-methyl-; 2,3-pentanediol, 4-methyl-; 2,3-hexanediol; 3,4-hexanediol; 1,2-butanediol, 2-ethyl-; 1,2-pentanediol, 2-methyl-; 1,2-pentanediol, 3-methyl-; 1,2-pentanediol, 4-methyl-; and/or 1,2-hexanediol;
- III. heptane diol isomers selected from the group consisting of: 1,3-propanediol, 2-butyl-; 1,3-propanediol, 2,2-diethyl-; 1,3-propanediol, 2-(1-methylpropyl)-; 1,3-propanediol, 2-(2-methylpropyl)-; 1,3-propanediol, 2-methyl-2-propyl-; 1,2-butanediol, 2,3,3-trimethyl-; 1,4-butanediol, 2-ethyl-2-methyl-; 1,4-butanediol, 2-ethyl-3-methyl-; 1,4-butanediol, 2-propyl-; 1,4-butanediol, 2-isopropyl-; 1,5-pentanediol, 2,2-dimethyl-; 1,5-pentanediol, 2,3-dimethyl-; 1,5-pentanediol, 2,4-dimethyl-; 1,5-pentanediol, 3,3-dimethyl-; 2,3-pentanediol, 2,3-dimethyl-; 2,3-pentanediol, 2,4-dimethyl-; 2,3-pentanediol, 3,4-dimethyl-; 2,3-pentanediol, 4,4-dimethyl-; 3,4-pentanediol, 2,3-dimethyl-; 1,5-pentanediol, 2-ethyl-; 1,6-hexanediol, 2-methyl-; 1,6-hexanediol, 3-methyl-; 2,3-hexanediol, 2-methyl-; 2,3-hexanediol, 3-methyl-; 2,3-hexanediol, 4-methyl-; 2,3-hexanediol, 5-methyl-; 3,4-hexanediol, 2-methyl-; 3,4-hexanediol, 3-methyl-; 1,3-heptanediol; 1,4-heptanediol; 1,5-heptanediol; and/or 1,6-heptanediol;
- IV. octane diol isomers selected from the group consisting of: 1,3-propanediol, 2-(2-methylbutyl)-; 1,3-propanediol, 2-(1,1-dimethylpropyl)-; 1,3-propanediol, 2-(1,2-dimethylpropyl)-; 1,3-propanediol, 2-(1-ethylpropyl)-; 1,3-propanediol, 2-(1-methylbutyl)-; 1,3-propanediol, 2-(2,2-dimethylpropyl)-; 1,3-propanediol, 2-(3-methylbutyl)-; 1,3-propanediol, 2-

butyl-2-methyl-; 1,3-propanediol, 2-ethyl-2-isopropyl-; 1,3-propanediol, 2-ethyl-2-propyl-; 1,3-propanediol, 2-methyl-2-(1-methylpropyl)-; 1,3-propanediol, 2-methyl-2-(2-methylpropyl)-; 1,3-propanediol, 2-tertiary-butyl-2-methyl-; 1,3-butanediol, 2,2-diethyl-; 1,3-butanediol, 2-(1-methylpropyl)-; 1,3-butanediol, 2-butyl-; 1,3-butanediol, 2-ethyl-2,3-dimethyl-; 1,3-butanediol, 2-(1,1-dimethylethyl)-; 1,3-butanediol, 2-(2-methylpropyl)-; 1,3-butanediol, 2-methyl-2-isopropyl-; 1,3-butanediol, 2-methyl-2-propyl-; 1,3-butanediol, 3-methyl-2-isopropyl-; 1,3-butanediol, 3-methyl-2-propyl-; 1,4-butanediol, 2,2-diethyl-; 1,4-butanediol, 2-methyl-2-propyl-; 1,4-butanediol, 2-(1-methylpropyl)-; 1,4-butanediol, 2-ethyl-2,3-dimethyl-; 1,4-butanediol, 2-ethyl-3,3-dimethyl-; 1,4-butanediol, 2-(1,1-dimethylethyl)-; 1,4-butanediol, 2-(2-methylpropyl)-; 1,4-butanediol, 2-methyl-3-propyl-; 1,4-butanediol, 3-methyl-2-isopropyl-; 1,3-pentanediol, 2,2,3-trimethyl-; 1,3-pentanediol, 2,2,4-trimethyl-; 1,3-pentanediol, 2,3,4-trimethyl-; 1,3-pentanediol, 2,4,4-trimethyl-; 1,3-pentanediol, 3,4,4-trimethyl-; 1,4-pentanediol, 2,2,3-trimethyl-; 1,4-pentanediol, 2,2,4-trimethyl-; 1,4-pentanediol, 2,3,3-trimethyl-; 1,4-pentanediol, 2,3,4-trimethyl-; 1,4-pentanediol, 3,3,4-trimethyl-; 1,5-pentanediol, 2,2,3-trimethyl-; 1,5-pentanediol, 2,2,4-trimethyl-; 1,5-pentanediol, 2,3,3-trimethyl-; 1,5-pentanediol, 2,3,4-trimethyl-; 2,4-pentanediol, 2,3,3-trimethyl-; 2,4-pentanediol, 2,3,4-trimethyl-; 1,3-pentanediol, 2-ethyl-2-methyl-; 1,3-pentanediol, 2-ethyl-3-methyl-; 1,3-pentanediol, 2-ethyl-4-methyl-; 1,3-pentanediol, 3-ethyl-2-methyl-; 1,4-pentanediol, 2-ethyl-2-methyl-; 1,4-pentanediol, 2-ethyl-3-methyl-; 1,4-pentanediol, 2-ethyl-4-methyl-; 1,4-pentanediol, 3-ethyl-2-methyl-; 1,4-pentanediol, 3-ethyl-3-methyl-; 1,5-pentanediol, 2-ethyl-2-methyl-; 1,5-pentanediol, 2-ethyl-3-methyl-; 1,5-pentanediol, 2-ethyl-4-methyl-; 1,5-pentanediol, 3-ethyl-3-methyl-; 2,4-pentanediol, 3-ethyl-2-methyl-; 1,3-pentanediol, 2-isopropyl-; 1,3-pentanediol, 2-propyl-; 1,4-pentanediol, 2-isopropyl-; 1,4-pentanediol, 2-propyl-; 1,4-pentanediol, 3-isopropyl-; 1,5-pentanediol, 2-isopropyl-; 2,4-pentanediol, 3-propyl-; 1,3-hexanediol, 2,2-dimethyl-; 1,3-hexanediol, 2,3-dimethyl-; 1,3-hexanediol, 2,4-dimethyl-; 1,3-hexanediol, 2,5-dimethyl-; 1,3-hexanediol, 3,4-dimethyl-; 1,3-hexanediol, 3,5-dimethyl-; 1,3-hexanediol, 4,5-dimethyl-; 1,4-hexanediol, 2,2-dimethyl-; 1,4-hexanediol, 2,3-dimethyl-; 1,4-hexanediol, 2,4-dimethyl-; 1,4-hexanediol, 2,5-dimethyl-; 1,4-hexanediol, 3,3-dimethyl-; 1,4-hexanediol, 3,4-dimethyl-; 1,4-

hexanediol, 3,5-dimethyl-; 1,3-hexanediol, 4,4-dimethyl-; 1,4-hexanediol, 4,5-dimethyl-; 1,4-hexanediol, 5,5-dimethyl-; 1,5-hexanediol, 2,2-dimethyl-; 1,5-hexanediol, 2,3-dimethyl-; 1,5-hexanediol, 2,4-dimethyl-; 1,5-hexanediol, 2,5-dimethyl-; 1,5-hexanediol, 3,3-dimethyl-; 1,5-hexanediol, 3,4-dimethyl-; 1,5-hexanediol, 3,5-dimethyl-; 1,5-hexanediol, 4,5-dimethyl-; 1,6-hexanediol, 2,2-dimethyl-; 1,6-hexanediol, 2,3-dimethyl-; 1,6-hexanediol, 2,4-dimethyl-; 1,6-hexanediol, 2,5-dimethyl-; 1,6-hexanediol, 3,3-dimethyl-; 1,6-hexanediol, 3,4-dimethyl-; 2,4-hexanediol, 2,3-dimethyl-; 2,4-hexanediol, 2,4-dimethyl-; 2,4-hexanediol, 2,5-dimethyl-; 2,4-hexanediol, 3,3-dimethyl-; 2,4-hexanediol, 3,4-dimethyl-; 2,4-hexanediol, 3,5-dimethyl-; 2,4-hexanediol, 4,5-dimethyl-; 2,4-hexanediol, 5,5-dimethyl-; 2,5-hexanediol, 2,3-dimethyl-; 2,5-hexanediol, 2,4-dimethyl-; 2,5-hexanediol, 2,5-dimethyl-; 2,5-hexanediol, 3,3-dimethyl-; 2,5-hexanediol, 3,4-dimethyl-; 2,6-hexanediol, 3,3-dimethyl-; 1,3-hexanediol, 2-ethyl-; 1,3-hexanediol, 4-ethyl-; 1,4-hexanediol, 2-ethyl-; 1,4-hexanediol, 4-ethyl-; 1,5-hexanediol, 2-ethyl-; 2,4-hexanediol, 3-ethyl-; 2,4-hexanediol, 4-ethyl-; 2,5-hexanediol, 3-ethyl-; 1,3-heptanediol, 2-methyl-; 1,3-heptanediol, 3-methyl-; 1,3-heptanediol, 4-methyl-; 1,3-heptanediol, 5-methyl-; 1,3-heptanediol, 6-methyl-; 1,4-heptanediol, 2-methyl-; 1,4-heptanediol, 3-methyl-; 1,4-heptanediol, 4-methyl-; 1,4-heptanediol, 5-methyl-; 1,4-heptanediol, 6-methyl-; 1,5-heptanediol, 2-methyl-; 1,5-heptanediol, 3-methyl-; 1,5-heptanediol, 4-methyl-; 1,5-heptanediol, 5-methyl-; 1,5-heptanediol, 6-methyl-; 1,6-heptanediol, 2-methyl-; 1,6-heptanediol, 3-methyl-; 1,6-heptanediol, 4-methyl-; 1,6-heptanediol, 5-methyl-; 1,6-heptanediol, 6-methyl-; 2,4-heptanediol, 2-methyl-; 2,4-heptanediol, 3-methyl-; 2,4-heptanediol, 4-methyl-; 2,4-heptanediol, 5-methyl-; 2,4-heptanediol, 6-methyl-; 2,5-heptanediol, 2-methyl-; 2,5-heptanediol, 3-methyl-; 2,5-heptanediol, 4-methyl-; 2,5-heptanediol, 5-methyl-; 2,5-heptanediol, 6-methyl-; 2,6-heptanediol, 2-methyl-; 2,6-heptanediol, 3-methyl-; 2,6-heptanediol, 4-methyl-; 3,4-heptanediol, 3-methyl-; 3,5-heptanediol, 2-methyl-; 3,5-heptanediol, 3-methyl-; 3,5-heptanediol, 4-methyl-; 2,4-octanediol; 2,5-octanediol; 2,6-octanediol; 2,7-octanediol; 3,5-octanediol; and/or 3,6-octanediol;

- V. nonane diol isomers selected from the group consisting of: 2,4-pentanediol, 2,3,3,4-tetramethyl-; 2,4-pentanediol, 3-tertiarybutyl-; 2,4-hexanediol, 2,5,5-trimethyl-; 2,4-hexanediol, 3,3,4-trimethyl-; 2,4-

hexanediol, 3,3,5-trimethyl-; 2,4-hexanediol, 3,5,5-trimethyl-; 2,4-hexanediol, 4,5,5-trimethyl-; 2,5-hexanediol, 3,3,4-trimethyl-; and/or 2,5-hexanediol, 3,3,5-trimethyl-;

VI. glyceryl ethers and/or di(hydroxyalkyl)ethers selected from the group consisting of: 1,2-propanediol, 3-(n-pentyloxy)-; 1,2-propanediol, 3-(2-pentyloxy)-; 1,2-propanediol, 3-(3-pentyloxy)-; 1,2-propanediol, 3-(2-methyl-1-butyloxy)-; 1,2-propanediol, 3-(iso-amyl-1-butyloxy)-; 1,2-propanediol, 3-(3-methyl-2-butyloxy)-; 1,2-propanediol, 3-(cyclohexyloxy)-; 1,2-propanediol, 3-(1-cyclohex-1-enyloxy)-; 1,3-propanediol, 2-(pentyloxy)-; 1,3-propanediol, 2-(2-pentyloxy)-; 1,3-propanediol, 2-(3-pentyloxy)-; 1,3-propanediol, 2-(2-methyl-1-butyloxy)-; 1,3-propanediol, 2-(iso-amyl-1-butyloxy)-; 1,3-propanediol, 2-(3-methyl-2-butyloxy)-; 1,3-propanediol, 2-(cyclohexyloxy)-; 1,3-propanediol, 2-(1-cyclohex-1-enyloxy)-; 1,2-propanediol, 3-(butyloxy)-, triethoxylated; 1,2-propanediol, 3-(butyloxy)-, tetraethoxylated; 1,2-propanediol, 3-(butyloxy)-, pentaethoxylated; 1,2-propanediol, 3-(butyloxy)-, hexaethoxylated; 1,2-propanediol, 3-(butyloxy)-, heptaethoxylated; 1,2-propanediol, 3-(butyloxy)-, octaethoxylated; 1,2-propanediol, 3-(butyloxy)-, nonaethoxylated; 1,2-propanediol, 3-(butyloxy)-, monopropoxylated; 1,2-propanediol, 3-(butyloxy)-, dibutyleneoxylated; 1,2-propanediol, 3-(butyloxy)-, tributyleneoxylated; 1,2-propanediol, 3-phenyloxy-; 1,2-propanediol, 3-benzyloxy-; 1,2-propanediol, 3-(2-phenylethyloxy)-; 1,2-propanediol, 3-(1-phenyl-2-propanyloxy)-; 1,3-propanediol, 2-phenyloxy-; 1,3-propanediol, 2-(m-cresyloxy)-; 1,3-propanediol, 2-(p-cresyloxy)-; 1,3-propanediol, 2-benzyloxy-; 1,3-propanediol, 2-(2-phenylethyloxy)-; 1,3-propanediol, 2-(1-phenylethyloxy)-; bis(2-hydroxybutyl)ether; and/or bis(2-hydroxycyclopentyl)ether

VII. saturated and unsaturated alicyclic diols and their derivatives selected from the group consisting of:

(a) the saturated diols and their derivatives, selected from the group consisting of: 1-isopropyl-1,2-cyclobutanediol; 3-ethyl-4-methyl-1,2-cyclobutanediol; 3-propyl-1,2-cyclobutanediol; 3-isopropyl-1,2-cyclobutanediol; 1-ethyl-1,2-cyclopentanediol; 1,2-dimethyl-1,2-cyclopentanediol; 1,4-dimethyl-1,2-cyclopentanediol; 2,4,5-trimethyl-1,3-cyclopentanediol; 3,3-dimethyl-1,2-cyclopentanediol; 3,4-dimethyl-1,2-cyclopentanediol; 3,5-dimethyl-1,2-cyclopentanediol; 3-ethyl-1,2-cyclopentanediol; 4,4-dimethyl-1,2-cyclopentanediol; 4-ethyl-1,2-

cyclopentanediol; 1,1-bis(hydroxymethyl)cyclohexane; 1,2-bis(hydroxymethyl)cyclohexane; 1,2-dimethyl-1,3-cyclohexanediol; 1,3-bis(hydroxymethyl)cyclohexane; 1,3-dimethyl-1,3-cyclohexanediol; 1,6-dimethyl-1,3-cyclohexanediol; 1-hydroxy-cyclohexaneethanol; 1-hydroxy-cyclohexanemethanol; 1-ethyl-1,3-cyclohexanediol; 1-methyl-1,2-cyclohexanediol; 2,2-dimethyl-1,3-cyclohexanediol; 2,3-dimethyl-1,4-cyclohexanediol; 2,4-dimethyl-1,3-cyclohexanediol; 2,5-dimethyl-1,3-cyclohexanediol; 2,6-dimethyl-1,4-cyclohexanediol; 2-ethyl-1,3-cyclohexanediol; 2-hydroxycyclohexaneethanol; 2-hydroxyethyl-1-cyclohexanol; 3-hydroxyethyl-1-cyclohexanol; 3-hydroxycyclohexaneethanol; 3-hydroxymethylcyclohexanol; 3-methyl-1,2-cyclohexanediol; 4,4-dimethyl-1,3-cyclohexanediol; 4,5-dimethyl-1,3-cyclohexanediol; 4,6-dimethyl-1,3-cyclohexanediol; 4-ethyl-1,3-cyclohexanediol; 4-hydroxyethyl-1-cyclohexanol; 4-methyl-1,2-cyclohexanediol; 5,5-dimethyl-1,3-cyclohexanediol; 5-ethyl-1,3-cyclohexanediol; 1,2-cycloheptanediol; 2-methyl-1,3-cycloheptanediol; 2-methyl-1,4-cycloheptanediol; 4-methyl-1,3-cycloheptanediol; 5-methyl-1,3-cycloheptanediol; 5-methyl-1,4-cycloheptanediol; 6-methyl-1,4-cycloheptanediol; ; 1,3-cyclooctanediol; 1,4-cyclooctanediol; 1,5-cyclooctanediol; 1,2-cyclohexanediol, diethoxylate; 1,2-cyclohexanediol, triethoxylate; 1,2-cyclohexanediol, tetraethoxylate; 1,2-cyclohexanediol, pentaethoxylate; 1,2-cyclohexanediol, hexaethoxylate; 1,2-cyclohexanediol, heptaethoxylate; 1,2-cyclohexanediol, octaethoxylate; 1,2-cyclohexanediol, nonaethoxylate; 1,2-cyclohexanediol, monopropoxylate; 1,2-cyclohexanediol, monobutylenoxyate; 1,2-cyclohexanediol, dibutylenoxyate; and/or 1,2-cyclohexanediol, tributylenoxyate; and

(b). the unsaturated alicyclic diols selected from the group consisting of: 1,2-cyclobutanediol, 1-ethenyl-2-ethyl-; 3-cyclobutene-1,2-diol, 1,2,3,4-tetramethyl-; 3-cyclobutene-1,2-diol, 3,4-diethyl-; 3-cyclobutene-1,2-diol, 3-(1,1-dimethylethyl)-; 3-cyclobutene-1,2-diol, 3-butyl-; 1,2-cyclopentanediol, 1,2-dimethyl-4-methylene-; 1,2-cyclopentanediol, 1-ethyl-3-methylene-; 1,2-cyclopentanediol, 4-(1-propenyl); 3-cyclopentene-1,2-diol, 1-ethyl-3-methyl-; 1,2-cyclohexanediol, 1-ethenyl-; 1,2-cyclohexanediol, 1-methyl-3-methylene-; 1,2-cyclohexanediol, 1-methyl-4-methylene-; 1,2-cyclohexanediol, 3-ethenyl-; 1,2-cyclohexanediol, 4-

ethenyl-; 3-cyclohexene-1,2-diol, 2,6-dimethyl-; 3-cyclohexene-1,2-diol, 6,6-dimethyl-; 4-cyclohexene-1,2-diol, 3,6-dimethyl-; 4-cyclohexene-1,2-diol, 4,5-dimethyl-; 3-cyclooctene-1,2-diol; 4-cyclooctene-1,2-diol; and/or 5-cyclooctene-1,2-diol;

VIII. Alkoxylated derivatives of C₃₋₈ diols selected from the group consisting of:

1. 1,2-propanediol 2(Me-polyethoxy₁₋₄); 1,2-propanediol polypropoxy₄; 1,2-propanediol, 2-methyl- (Me-polyethoxy₄₋₁₀); 1,2-propanediol, 2-methyl- 2(Me-polyethoxy₁); 1,2-propanediol, 2-methyl- polypropoxy₃; 1,2-propanediol, 2-methyl- polybutoxy₁; 1,3-propanediol 2(Me-polyethoxy₆₋₈); 1,3-propanediol polypropoxy₅₋₆; 1,3-propanediol, 2,2-diethyl- polyethoxy₁₋₇; 1,3-propanediol, 2,2-diethyl- polypropoxy₁; 1,3-propanediol, 2,2-diethyl- n-polybutoxy₁₋₂; 1,3-propanediol, 2,2-dimethyl- 2(Me polyethoxy₁₋₂); 1,3-propanediol, 2,2-dimethyl- polypropoxy₃₋₄; 1,3-propanediol, 2-(1-methylpropyl)- polyethoxy₁₋₇; 1,3-propanediol, 2-(1-methylpropyl)- polypropoxy₁; 1,3-propanediol, 2-(1-methylpropyl)- n-polybutoxy₁₋₂; 1,3-propanediol, 2-(2-methylpropyl)- polyethoxy₁₋₇; 1,3-propanediol, 2-(2-methylpropyl)- polypropoxy₁; 1,3-propanediol, 2-(2-methylpropyl)- n-polybutoxy₁₋₂; 1,3-propanediol, 2-ethyl- (Me polyethoxy₆₋₁₀); 1,3-propanediol, 2-ethyl- 2(Me polyethoxy₁); 1,3-propanediol, 2-ethyl- polypropoxy₃; 1,3-propanediol, 2-ethyl-2-methyl- (Me polyethoxy₁₋₆); 1,3-propanediol, 2-ethyl-2-methyl- polypropoxy₂; 1,3-propanediol, 2-ethyl-2-methyl- polybutoxy₁; 1,3-propanediol, 2-isopropyl- (Me polyethoxy₁₋₆); 1,3-propanediol, 2-isopropyl- polypropoxy₂; 1,3-propanediol, 2-isopropyl- polybutoxy₁; 1,3-propanediol, 2-methyl- 2(Me polyethoxy₂₋₅); 1,3-propanediol, 2-methyl- polypropoxy₄₋₅; 1,3-propanediol, 2-methyl- polybutoxy₂; 1,3-propanediol, 2-methyl-2-isopropyl- polyethoxy₂₋₉; 1,3-propanediol, 2-methyl-2-isopropyl- polypropoxy₁; 1,3-propanediol, 2-methyl-2-isopropyl- n-polybutoxy₁₋₃; 1,3-propanediol, 2-methyl-2-propyl- polyethoxy₁₋₇; 1,3-propanediol, 2-methyl-2-propyl- polypropoxy₁; 1,3-propanediol, 2-methyl-2-propyl- n-polybutoxy₁₋₂; 1,3-propanediol, 2-propyl- (Me polyethoxy₁₋₄); 1,3-propanediol, 2-propyl- polypropoxy₂; 1,3-propanediol, 2-propyl- polybutoxy₁;

2. 1,2-butanediol (Me polyethoxy₂₋₈); 1,2-butanediol polypropoxy₂₋₃; 1,2-butanediol polybutoxy₁; 1,2-butanediol, 2,3-dimethyl-polyethoxy₁₋₆; 1,2-butanediol, 2,3-dimethyl- n-polybutoxy₁₋₂; 1,2-butanediol, 2-ethyl- polyethoxy₁₋₃; 1,2-butanediol, 2-ethyl- n-polybutoxy₁; 1,2-butanediol, 2-methyl- (Me polyethoxy₁₋₂); 1,2-butanediol, 2-methyl- polypropoxy₁; 1,2-butanediol, 3,3-dimethyl-polyethoxy₁₋₆; 1,2-butanediol, 3,3-dimethyl- n-polybutoxy₁₋₂; 1,2-butanediol, 3-methyl- (Me polyethoxy₁₋₂); 1,2-butanediol, 3-methyl-polypropoxy₁; 1,3-butanediol 2(Me polyethoxy₃₋₆); 1,3-butanediol polypropoxy₅; 1,3-butanediol polybutoxy₂; 1,3-butanediol, 2,2,3-trimethyl- (Me polyethoxy₁₋₃); 1,3-butanediol, 2,2,3-trimethyl-polypropoxy₁₋₂; 1,3-butanediol, 2,2-dimethyl- (Me polyethoxy₃₋₈); 1,3-butanediol, 2,2-dimethyl- polypropoxy₃; 1,3-butanediol, 2,3-dimethyl- (Me polyethoxy₃₋₈); 1,3-butanediol, 2,3-dimethyl-polypropoxy₃; 1,3-butanediol, 2-ethyl- (Me polyethoxy₁₋₆); 1,3-butanediol, 2-ethyl- polypropoxy₂₋₃; 1,3-butanediol, 2-ethyl-polybutoxy₁; 1,3-butanediol, 2-ethyl-2-methyl- (Me polyethoxy₁); 1,3-butanediol, 2-ethyl-2-methyl- polypropoxy₁; 1,3-butanediol, 2-ethyl-2-methyl- n-polybutoxy₂₋₄; 1,3-butanediol, 2-ethyl-3-methyl- (Me polyethoxy₁); 1,3-butanediol, 2-ethyl-3-methyl- polypropoxy₁; 1,3-butanediol, 2-ethyl-3-methyl- n-polybutoxy₂₋₄; 1,3-butanediol, 2-isopropyl- (Me polyethoxy₁); 1,3-butanediol, 2-isopropyl-polypropoxy₁; 1,3-butanediol, 2-isopropyl- n-polybutoxy₂₋₄; 1,3-butanediol, 2-methyl- 2(Me polyethoxy₁₋₃); 1,3-butanediol, 2-methyl-polypropoxy₄; 1,3-butanediol, 2-propyl- polyethoxy₂₋₉; 1,3-butanediol, 2-propyl- polypropoxy₁; 1,3-butanediol, 2-propyl- n-polybutoxy₁₋₃; 1,3-butanediol, 3-methyl- 2(Me polyethoxy₁₋₃); 1,3-butanediol, 3-methyl- polypropoxy₄; 1,4-butanediol 2(Me polyethoxy₂₋₄); 1,4-butanediol polypropoxy₄₋₅; 1,4-butanediol polybutoxy₂; 1,4-butanediol, 2,2,3-trimethyl- polyethoxy₂₋₉; 1,4-butanediol, 2,2,3-trimethyl- polypropoxy₁; 1,4-butanediol, 2,2,3-trimethyl- n-polybutoxy₁₋₃; 1,4-butanediol, 2,2-dimethyl- (Me polyethoxy₁₋₆); 1,4-butanediol, 2,2-dimethyl- polypropoxy₂; 1,4-butanediol, 2,2-dimethyl- polybutoxy₁; 1,4-butanediol, 2,3-dimethyl- (Me polyethoxy₁₋₆); 1,4-butanediol, 2,3-dimethyl- polypropoxy₂; 1,4-butanediol, 2,3-dimethyl- polybutoxy₁; 1,4-butanediol, 2-ethyl- (Me

polyethoxy₁₋₄); 1,4-butanediol, 2-ethyl- polypropoxy₂; 1,4-butanediol, 2-ethyl- polybutoxy₁; 1,4-butanediol, 2-ethyl-2-methyl- polyethoxy₁₋₇; 1,4-butanediol, 2-ethyl-2-methyl- polypropoxy₁; 1,4-butanediol, 2-ethyl-2-methyl- n-polybutoxy₁₋₂; 1,4-butanediol, 2-ethyl-3-methyl- polyethoxy₁₋₇; 1,4-butanediol, 2-ethyl-3-methyl- polypropoxy₁; 1,4-butanediol, 2-ethyl-3-methyl- n-polybutoxy₁₋₂; 1,4-butanediol, 2-isopropyl- polyethoxy₁₋₇; 1,4-butanediol, 2-isopropyl- polypropoxy₁; 1,4-butanediol, 2-isopropyl- n-polybutoxy₁₋₂; 1,4-butanediol, 2-methyl- (Me polyethoxy₆₋₁₀); 1,4-butanediol, 2-methyl- 2(Me polyethoxy₁); 1,4-butanediol, 2-methyl- polypropoxy₃; 1,4-butanediol, 2-methyl- polybutoxy₁; 1,4-butanediol, 2-propyl- polyethoxy₁₋₅; 1,4-butanediol, 2-propyl- n-polybutoxy₁₋₂; 1,4-butanediol, 3-ethyl-1-methyl- polyethoxy₂₋₉; 1,4-butanediol, 3-ethyl-1-methyl- polypropoxy₁; 1,4-butanediol, 3-ethyl-1-methyl- n-polybutoxy₁₋₃; 2,3-butanediol (Me polyethoxy₆₋₁₀); 2,3-butanediol 2(Me polyethoxy₁); 2,3-butanediol polypropoxy₃₋₄; 2,3-butanediol polybutoxy₁; 2,3-butanediol, 2,3-dimethyl- polyethoxy₃₋₉; 2,3-butanediol, 2,3-dimethyl- polypropoxy₁; 2,3-butanediol, 2,3-dimethyl- n-polybutoxy₁₋₃; 2,3-butanediol, 2-methyl- (Me polyethoxy₁₋₅); 2,3-butanediol, 2-methyl- polypropoxy₂; 2,3-butanediol, 2-methyl- polybutoxy₁;

3. 1,2-pentanediol polyethoxy₃₋₁₀; 1,2-pentanediol, polypropoxy₁; 1,2-pentanediol, n-polybutoxy₂₋₃; 1,2-pentanediol, 2-methyl polyethoxy₁₋₃; 1,2-pentanediol, 2-methyl n-polybutoxy₁; 1,2-pentanediol, 2-methyl polybutoxy₁; 1,2-pentanediol, 3-methyl polyethoxy₁₋₃; 1,2-pentanediol, 3-methyl n-polybutoxy₁; 1,2-pentanediol, 4-methyl polyethoxy₁₋₃; 1,2-pentanediol, 4-methyl n-polybutoxy₁; 1,3-pentanediol 2(Me-polyethoxy₁₋₂); 1,3-pentanediol polypropoxy₃₋₄; 1,3-pentanediol, 2,2-dimethyl- (Me-polyethoxy₁); 1,3-pentanediol, 2,2-dimethyl- polypropoxy₁; 1,3-pentanediol, 2,2-dimethyl- n-polybutoxy₂₋₄; 1,3-pentanediol, 2,3-dimethyl- (Me-polyethoxy₁); 1,3-pentanediol, 2,3-dimethyl- polypropoxy₁; 1,3-pentanediol, 2,3-dimethyl- n-polybutoxy₂₋₄; 1,3-pentanediol, 2,4-dimethyl- (Me-polyethoxy₁); 1,3-pentanediol, 2,4-dimethyl- polypropoxy₁; 1,3-pentanediol, 2,4-dimethyl- n-polybutoxy₂₋₄; 1,3-pentanediol, 2-ethyl- polyethoxy₂₋₉; 1,3-pentanediol, 2-ethyl- polypropoxy₁; 1,3-pentanediol, 2-ethyl- n-polybutoxy₁₋₃; 1,3-pentanediol, 2-methyl-

2(Me-polyethoxy₁₋₆); 1,3-pentanediol, 2-methyl- polypropoxy₂₋₃; 1,3-pentanediol, 2-methyl- polybutoxy₁; 1,3-pentanediol, 3,4-dimethyl- (Me-polyethoxy₁); 1,3-pentanediol, 3,4-dimethyl- polypropoxy₁; 1,3-pentanediol, 3,4-dimethyl- n-polybutoxy₂₋₄; 1,3-pentanediol, 3-methyl- (Me-polyethoxy₁₋₆); 1,3-pentanediol, 3-methyl- polypropoxy₂₋₃; 1,3-pentanediol, 3-methyl- polybutoxy₁; 1,3-pentanediol, 4,4-dimethyl- (Me-polyethoxy₁); 1,3-pentanediol, 4,4-dimethyl- polypropoxy₁; 1,3-pentanediol, 4,4-dimethyl- n-polybutoxy₂₋₄; 1,3-pentanediol, 4-methyl- (Me-polyethoxy₁₋₆); 1,3-pentanediol, 4-methyl- polypropoxy₂₋₃; 1,3-pentanediol, 4-methyl- polybutoxy₁; 1,4-pentanediol, 2(Me-polyethoxy₁₋₂); 1,4-pentanediol polypropoxy₃₋₄; 1,4-pentanediol, 2,2-dimethyl- (Me-polyethoxy₁); 1,4-pentanediol, 2,2-dimethyl- polypropoxy₁; 1,4-pentanediol, 2,2-dimethyl- n-polybutoxy₂₋₄; 1,4-pentanediol, 2,3-dimethyl- (Me-polyethoxy₁); 1,4-pentanediol, 2,3-dimethyl- polypropoxy₁; 1,4-pentanediol, 2,3-dimethyl- n-polybutoxy₂₋₄; 1,4-pentanediol, 2,4-dimethyl- (Me-polyethoxy₁); 1,4-pentanediol, 2,4-dimethyl- polypropoxy₁; 1,4-pentanediol, 2,4-dimethyl- n-polybutoxy₂₋₄; 1,4-pentanediol, 2-methyl- (Me-polyethoxy₁₋₆); 1,4-pentanediol, 2-methyl- polypropoxy₂₋₃; 1,4-pentanediol, 2-methyl- polybutoxy₁; 1,4-pentanediol, 3,3-dimethyl- (Me-polyethoxy₁); 1,4-pentanediol, 3,3-dimethyl- polypropoxy₁; 1,4-pentanediol, 3,3-dimethyl- n-polybutoxy₂₋₄; 1,4-pentanediol, 3,4-dimethyl- (Me-polyethoxy₁); 1,4-pentanediol, 3,4-dimethyl- polypropoxy₁; 1,4-pentanediol, 3,4-dimethyl- n-polybutoxy₂₋₄; 1,4-pentanediol, 3-methyl- 2(Me-polyethoxy₁₋₆); 1,4-pentanediol, 3-methyl- polypropoxy₂₋₃; 1,4-pentanediol, 3-methyl- polybutoxy₁; 1,4-pentanediol, 4-methyl- 2(Me-polyethoxy₁₋₆); 1,4-pentanediol, 4-methyl- polypropoxy₂₋₃; 1,4-pentanediol, 4-methyl- polybutoxy₁; 1,5-pentanediol, (Me-polyethoxy₄₋₁₀); 1,5-pentanediol 2(Me-polyethoxy₁); 1,5-pentanediol polypropoxy₃; 1,5-pentanediol, 2,2-dimethyl- polyethoxy₁₋₇; 1,5-pentanediol, 2,2-dimethyl- polypropoxy₁; 1,5-pentanediol, 2,2-dimethyl- n-polybutoxy₁₋₂; 1,5-pentanediol, 2,3-dimethyl- polyethoxy₁₋₇; 1,5-pentanediol, 2,3-dimethyl- polypropoxy₁; 1,5-pentanediol, 2,3-dimethyl- n-polybutoxy₁₋₂; 1,5-pentanediol, 2,4-dimethyl- polyethoxy₁₋₇; 1,5-pentanediol, 2,4-dimethyl-

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polypropoxy₁; 1,5-pentanediol, 2,4-dimethyl- n-polybutoxy₁₋₂; 1,5-pentanediol, 2-ethyl- polyethoxy₁₋₅; 1,5-pentanediol, 2-ethyl- n-polybutoxy₁₋₂; 1,5-pentanediol, 2-methyl- (Me-polyethoxy₁₋₄); 1,5-pentanediol, 2-methyl- polypropoxy₂; 1,5-pentanediol, 3,3-dimethyl- polyethoxy₁₋₇; 1,5-pentanediol, 3,3-dimethyl- polypropoxy₁; 1,5-pentanediol, 3,3-dimethyl- n-polybutoxy₁₋₂; 1,5-pentanediol, 3-methyl- (Me-polyethoxy₁₋₄); 1,5-pentanediol, 3-methyl- polypropoxy₂; 2,3-pentanediol, (Me-polyethoxy₁₋₃); 2,3-pentanediol, polypropoxy₂; 2,3-pentanediol, 2-methyl- polyethoxy₁₋₇; 2,3-pentanediol, 2-methyl- polypropoxy₁; 2,3-pentanediol, 2-methyl- n-polybutoxy₁₋₂; 2,3-pentanediol, 3-methyl- polyethoxy₁₋₇; 2,3-pentanediol, 3-methyl- polypropoxy₁; 2,3-pentanediol, 3-methyl- n-polybutoxy₁₋₂; 2,3-pentanediol, 4-methyl- polyethoxy₁₋₇; 2,3-pentanediol, 4-methyl- polypropoxy₁; 2,3-pentanediol, 4-methyl- n-polybutoxy₁₋₂; 2,4-pentanediol, 2(Me-polyethoxy₁₋₄); 2,4-pentanediol polypropoxy₄; 2,4-pentanediol, 2,3-dimethyl- (Me-polyethoxy₁₋₄); 2,4-pentanediol, 2,3-dimethyl- polypropoxy₂; 2,4-pentanediol, 2,4-dimethyl- (Me-polyethoxy₁₋₄); 2,4-pentanediol, 2,4-dimethyl- polypropoxy₂; 2,4-pentanediol, 2-methyl- (Me-polyethoxy₅₋₁₀); 2,4-pentanediol, 2-methyl- polypropoxy₃; 2,4-pentanediol, 3,3-dimethyl- (Me-polyethoxy₁₋₄); 2,4-pentanediol, 3,3-dimethyl- polypropoxy₂; 2,4-pentanediol, 3-methyl- (Me-polyethoxy₅₋₁₀); 2,4-pentanediol, 3-methyl- polypropoxy₃;

4. 1,3-hexanediol (Me-polyethoxy₁₋₅); 1,3-hexanediol polypropoxy₂; 1,3-hexanediol polybutoxy₁; 1,3-hexanediol, 2-methyl- polyethoxy₂₋₉; 1,3-hexanediol, 2-methyl- polypropoxy₁; 1,3-hexanediol, 2-methyl- n-polybutoxy₁₋₃; 1,3-hexanediol, 2-methyl- polybutoxy₁; 1,3-hexanediol, 3-methyl- polyethoxy₂₋₉; 1,3-hexanediol, 3-methyl- polypropoxy₁; 1,3-hexanediol, 3-methyl- n-polybutoxy₁₋₃; 1,3-hexanediol, 4-methyl- polyethoxy₂₋₉; 1,3-hexanediol, 4-methyl- polypropoxy₁; 1,3-hexanediol, 4-methyl- n-polybutoxy₁₋₃; 1,3-hexanediol, 5-methyl- polyethoxy₂₋₉; 1,3-hexanediol, 5-methyl- polypropoxy₁; 1,3-hexanediol, 5-methyl- n-polybutoxy₁₋₃; 1,4-hexanediol (Me-polyethoxy₁₋₅); 1,4-hexanediol polypropoxy₂; 1,4-hexanediol polybutoxy₁; 1,4-hexanediol, 2-methyl- polyethoxy₂₋₉; 1,4-hexanediol, 2-methyl- polypropoxy₁; 1,4-hexanediol, 2-methyl- n-

- polybutoxy₁₋₃; 1,4-hexanediol, 3-methyl- polyethoxy₂₋₉; 1,4-hexanediol, 3-methyl- polypropoxy₁; 1,4-hexanediol, 3-methyl- n-polybutoxy₁₋₃; 1,4-hexanediol, 4-methyl- polyethoxy₂₋₉; 1,4-hexanediol, 4-methyl- polypropoxy₁; 1,4-hexanediol, 4-methyl- n-polybutoxy₁₋₃; 1,4-hexanediol, 5-methyl- polyethoxy₂₋₉; 1,4-hexanediol, 5-methyl- polypropoxy₁; 1,4-hexanediol, 5-methyl- n-polybutoxy₁₋₃; 1,5-hexanediol (Me-polyethoxy₁₋₅); 1,5-hexanediol polypropoxy₂; 1,5-hexanediol polybutoxy₁; 1,5-hexanediol, 2-methyl- polyethoxy₂₋₉; 1,5-hexanediol, 2-methyl- polypropoxy₁; 1,5-hexanediol, 2-methyl- n-polybutoxy₁₋₃; 1,5-hexanediol, 3-methyl- polyethoxy₂₋₉; 1,5-hexanediol, 3-methyl- polypropoxy₁; 1,5-hexanediol, 3-methyl- n-polybutoxy₁₋₃; 1,5-hexanediol, 4-methyl- polyethoxy₂₋₉; 1,5-hexanediol, 4-methyl- polypropoxy₁; 1,5-hexanediol, 4-methyl- n-polybutoxy₁₋₃; 1,5-hexanediol, 5-methyl- polyethoxy₂₋₉; 1,5-hexanediol, 5-methyl- polypropoxy₁; 1,5-hexanediol, 5-methyl- n-polybutoxy₁₋₃; 1,6-hexanediol (Me-polyethoxy₁₋₂); 1,6-hexanediol polypropoxy₁₋₂; 1,6-hexanediol n-polybutoxy₄; 1,6-hexanediol, 2-methyl- polyethoxy₁₋₅; 1,6-hexanediol, 2-methyl- n-polybutoxy₁₋₂; 1,6-hexanediol, 3-methyl- polyethoxy₁₋₅; 1,6-hexanediol, 3-methyl- n-polybutoxy₁₋₂; 2,3-hexanediol polyethoxy₁₋₅; 2,3-hexanediol n-polybutoxy₁; 2,3-hexanediol polybutoxy₁; 2,4-hexanediol (Me-polyethoxy₃₋₈); 2,4-hexanediol polypropoxy₃; 2,4-hexanediol, 2-methyl- (Me-polyethoxy₁₋₂); 2,4-hexanediol 2-methyl- polypropoxy₁₋₂; 2,4-hexanediol, 3-methyl- (Me-polyethoxy₁₋₂); 2,4-hexanediol 3-methyl- polypropoxy₁₋₂; 2,4-hexanediol, 4-methyl- (Me-polyethoxy₁₋₂); 2,4-hexanediol 4-methyl- polypropoxy₁₋₂; 2,4-hexanediol, 5-methyl- (Me-polyethoxy₁₋₂); 2,4-hexanediol 5-methyl- polypropoxy₁₋₂; 2,5-hexanediol (Me-polyethoxy₃₋₈); 2,5-hexanediol polypropoxy₃; 2,5-hexanediol, 2-methyl- (Me-polyethoxy₁₋₂); 2,5-hexanediol 2-methyl- polypropoxy₁₋₂; 2,5-hexanediol, 3-methyl- (Me-polyethoxy₁₋₂); 2,5-hexanediol 3-methyl- polypropoxy₁₋₂; 3,4-hexanediol polyethoxy₁₋₅; 3,4-hexanediol n-polybutoxy₁; 3,4-hexanediol polybutoxy₁;
5. 1,3-heptanediol polyethoxy₁₋₇; 1,3-heptanediol polypropoxy₁; 1,3-heptanediol n-polybutoxy₁₋₂; 1,4-heptanediol polyethoxy₁₋₇; 1,4-heptanediol polypropoxy₁; 1,4-heptanediol n-polybutoxy₁₋₂; 1,5-

heptanediol polyethoxy₁₋₇; 1,5-heptanediol polypropoxy₁; 1,5-heptanediol n-polybutoxy₁₋₂; 1,6-heptanediol polyethoxy₁₋₇; 1,6-heptanediol polypropoxy₁; 1,6-heptanediol n-polybutoxy₁₋₂; 1,7-heptanediol polyethoxy₁₋₂; 1,7-heptanediol n-polybutoxy₁; 2,4-heptanediol polyethoxy₃₋₁₀; 2,4-heptanediol (Me-polyethoxy₁); 2,4-heptanediol polypropoxy₁; 2,4-heptanediol n-polybutoxy₃; 2,5-heptanediol polyethoxy₃₋₁₀; 2,5-heptanediol (Me-polyethoxy₁); 2,5-heptanediol polypropoxy₁; 2,5-heptanediol n-polybutoxy₃; 2,6-heptanediol polyethoxy₃₋₁₀; 2,6-heptanediol (Me-polyethoxy₁); 2,6-heptanediol polypropoxy₁; 2,6-heptanediol n-polybutoxy₃; 3,5-heptanediol polyethoxy₃₋₁₀; 3,5-heptanediol (Me-polyethoxy₁); 3,5-heptanediol polypropoxy₁; 3,5-heptanediol n-polybutoxy₃;

6. 1,3-butanediol, 3-methyl-2-isopropyl- polypropoxy₁; 2,4-pentanediol, 2,3,3-trimethyl- polypropoxy₁; 1,3-butanediol, 2,2-diethyl- polyethoxy₂₋₅; 2,4-hexanediol, 2,3-dimethyl- polyethoxy₂₋₅; 2,4-hexanediol, 2,4-dimethyl- polyethoxy₂₋₅; 2,4-hexanediol, 2,5-dimethyl- polyethoxy₂₋₅; 2,4-hexanediol, 3,3-dimethyl- polyethoxy₂₋₅; 2,4-hexanediol, 3,4-dimethyl- polyethoxy₂₋₅; 2,4-hexanediol, 3,5-dimethyl- polyethoxy₂₋₅; 2,4-hexanediol, 4,5-dimethyl- polyethoxy₂₋₅; 2,4-hexanediol, 5,5-dimethyl- polyethoxy₂₋₅; 2,5-hexanediol, 2,3-dimethyl- polyethoxy₂₋₅; 2,5-hexanediol, 2,4-dimethyl- polyethoxy₂₋₅; 2,5-hexanediol, 2,5-dimethyl- polyethoxy₂₋₅; 2,5-hexanediol, 3,3-dimethyl- polyethoxy₂₋₅; 2,5-hexanediol, 3,4-dimethyl- polyethoxy₂₋₅; 3,5-heptanediol, 3-methyl- polyethoxy₂₋₅; 1,3-butanediol, 2,2-diethyl- n-polybutoxy₁₋₂; 2,4-hexanediol, 2,3-dimethyl- n-polybutoxy₁₋₂; 2,4-hexanediol, 2,4-dimethyl- n-polybutoxy₁₋₂; 2,4-hexanediol, 2,5-dimethyl- n-polybutoxy₁₋₂; 2,4-hexanediol, 3,3-dimethyl- n-polybutoxy₁₋₂; 2,4-hexanediol, 3,4-dimethyl- n-polybutoxy₁₋₂; 2,4-hexanediol, 3,5-dimethyl- n-polybutoxy₁₋₂; 2,4-hexanediol, 4,5-dimethyl- n-polybutoxy₁₋₂; 2,4-hexanediol, 5,5-dimethyl-, n-polybutoxy₁₋₂; 2,5-hexanediol, 2,3-dimethyl- n-polybutoxy₁₋₂; 2,5-hexanediol, 2,4-dimethyl- n-polybutoxy₁₋₂; 2,5-hexanediol, 2,5-dimethyl- n-polybutoxy₁₋₂; 2,5-hexanediol, 3,3-dimethyl- n-polybutoxy₁₋₂; 2,5-hexanediol, 3,4-dimethyl- n-polybutoxy₁₋₂; 3,5-heptanediol, 3-methyl- n-polybutoxy₁₋₂; 1,3-propanediol, 2-(1,2-dimethylpropyl)- n-polybutoxy₁; 1,3-butanediol, 2-

ethyl-2,3-dimethyl- n-polybutoxy₁; 1,3-butanediol, 2-methyl-2-isopropyl- n-polybutoxy₁; 1,4-butanediol, 3-methyl-2-isopropyl- n-polybutoxy₁; 1,3-pentanediol, 2,2,3-trimethyl- n-polybutoxy₁; 1,3-pentanediol, 2,2,4-trimethyl- n-polybutoxy₁; 1,3-pentanediol, 2,4,4-trimethyl- n-polybutoxy₁; 1,3-pentanediol, 3,4,4-trimethyl- n-polybutoxy₁; 1,4-pentanediol, 2,2,3-trimethyl- n-polybutoxy₁; 1,4-pentanediol, 2,2,4-trimethyl- n-polybutoxy₁; 1,4-pentanediol, 2,3,3-trimethyl- n-polybutoxy₁; 1,4-pentanediol, 2,3,4-trimethyl- n-polybutoxy₁; 1,4-pentanediol, 3,3,4-trimethyl- n-polybutoxy₁; 2,4-pentanediol, 2,3,4-trimethyl- n-polybutoxy₁; 2,4-hexanediol, 4-ethyl- n-polybutoxy₁; 2,4-heptanediol, 2-methyl- n-polybutoxy₁; 2,4-heptanediol, 3-methyl- n-polybutoxy₁; 2,4-heptanediol, 4-methyl- n-polybutoxy₁; 2,4-heptanediol, 5-methyl- n-polybutoxy₁; 2,4-heptanediol, 6-methyl- n-polybutoxy₁; 2,5-heptanediol, 2-methyl- n-polybutoxy₁; 2,5-heptanediol, 3-methyl- n-polybutoxy₁; 2,5-heptanediol, 4-methyl- n-polybutoxy₁; 2,5-heptanediol, 5-methyl- n-polybutoxy₁; 2,5-heptanediol, 6-methyl- n-polybutoxy₁; 2,6-heptanediol, 2-methyl- n-polybutoxy₁; 2,6-heptanediol, 3-methyl- n-polybutoxy₁; 2,6-heptanediol, 4-methyl- n-polybutoxy₁; 3,5-heptanediol, 2-methyl- n-polybutoxy₁; 1,3-propanediol, 2-(1,2-dimethylpropyl)- polyethoxy₁₋₃; 1,3-butanediol, 2-ethyl-2,3-dimethyl- polyethoxy₁₋₃; 1,3-butanediol, 2-methyl-2-isopropyl- polyethoxy₁₋₃; 1,4-butanediol, 3-methyl-2-isopropyl- polyethoxy₁₋₃; 1,3-pentanediol, 2,2,3-trimethyl- polyethoxy₁₋₃; 1,3-pentanediol, 2,2,4-trimethyl- polyethoxy₁₋₃; 1,3-pentanediol, 2,4,4-trimethyl- polyethoxy₁₋₃; 1,3-pentanediol, 3,4,4-trimethyl- polyethoxy₁₋₃; 1,4-pentanediol, 2,2,3-trimethyl- polyethoxy₁₋₃; 1,4-pentanediol, 2,2,4-trimethyl- polyethoxy₁₋₃; 1,4-pentanediol, 2,3,3-trimethyl- polyethoxy₁₋₃; 1,4-pentanediol, 2,3,4-trimethyl- polyethoxy₁₋₃; 1,4-pentanediol, 3,3,4-trimethyl- polyethoxy₁₋₃; 2,4-pentanediol, 2,3,4-trimethyl- polyethoxy₁₋₃; 2,4-hexanediol, 4-ethyl- polyethoxy₁₋₃; 2,4-heptanediol, 2-methyl- polyethoxy₁₋₃; 2,4-heptanediol, 3-methyl- polyethoxy₁₋₃; 2,4-heptanediol, 4-methyl- polyethoxy₁₋₃; 2,4-heptanediol, 5-methyl- polyethoxy₁₋₃; 2,4-heptanediol, 6-methyl- polyethoxy₁₋₃; 2,5-heptanediol, 2-methyl- polyethoxy₁₋₃; 2,5-heptanediol, 3-methyl- polyethoxy₁₋₃; 2,5-heptanediol, 4-methyl-

polyethoxy₁₋₃; 2,5-heptanediol, 5-methyl- polyethoxy₁₋₃; 2,5-heptanediol, 6-methyl- polyethoxy₁₋₃; 2,6-heptanediol, 2-methyl- polyethoxy₁₋₃; 2,6-heptanediol, 3-methyl- polyethoxy₁₋₃; 2,6-heptanediol, 4-methyl- polyethoxy₁₋₃; and/or 3,5-heptanediol, 2-methyl- polyethoxy₁₋₃; and

7. mixtures thereof;

IX. aromatic diols selected from the group consisting of: 1-phenyl-1,2-ethanediol; 1-phenyl-1,2-propanediol; 2-phenyl-1,2-propanediol; 3-phenyl-1,2-propanediol; 1-(3-methylphenyl)-1,3-propanediol; 1-(4-methylphenyl)-1,3-propanediol; 2-methyl-1-phenyl-1,3-propanediol; 1-phenyl-1,3-butanediol; 3-phenyl-1,3-butanediol; 1-phenyl-1,4-butanediol; 2-phenyl-1,4-butanediol; and/or 1-phenyl-2,3-butanediol;

X. unsaturated solvents which have a ClogP value of from about 0.15 to about 0.64 and are homologs, or analogs, of the above structures where one, or more, CH₂ groups are added while, for each CH₂ group added, two hydrogen atoms are removed from adjacent carbon atoms in the molecule to form one carbon-carbon double bond, thus holding the number of hydrogen atoms in the molecule constant; and

XI. mixtures thereof, said principal solvent optionally containing amounts of solvents selected from the group consisting of: n-propanol; 2,2,4-trimethyl-1,3-pentane diol; the ethoxylate, diethoxylate, or triethoxylate derivatives of 2,2,4-trimethyl-1,3-pentane diol; 2-ethylhexyl-1,3-diol and mixtures thereof which are insufficient to provide an aqueous stable product;

C. optionally, an effective level, sufficient to improve clarity, of low molecular weight water soluble solvents selected from the group consisting of: ethanol, isopropanol, propylene glycol, 1,3-propanediol, propylene carbonate, and mixtures thereof, said water soluble solvents being incapable of forming clear compositions when used by themselves at that level;

D. optionally, but preferably, an effective amount to improve clarity, of water soluble calcium and/or magnesium salt; and

E. the balance being water.

139. A premix of the components of Claim 124 consisting essentially of: said biodegradable fabric softener active A.; said principal solvent B.; and optionally, said water soluble solvent C, the amount of water being less than is present in the final composition.

NAB

140. A process of making a clear fabric softening composition using the premix of Claim 139, the process comprising the steps of adding said premix to a water seat comprising water; acid to create a pH of from about 1.5 to about 5; and, optionally, adding an effective amount to improve stability or modify viscosity of water soluble calcium and/or magnesium salt.

141. The process of making a solvent mixture of Claim 129, comprising the condensation of butyraldehyde, isobutyraldehyde and/or methyl ethyl ketone, so long as the level of butyraldehyde, or isobutyraldehyde is less than about 95% of the reaction mixture, in the presence of highly alkaline catalyst followed by conversion by hydrogenation.

142. The process of Claim 141, wherein the level of butyraldehyde, or isobutyraldehyde is less than about 85% of the reaction mixture.

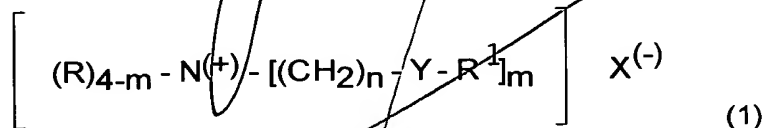
143. The process of Claim 142, wherein the level of butyraldehyde, or isobutyraldehyde is less than about 80% of the reaction mixture.

144. The mixture prepared by the process of Claim 141

145. An aqueous, stable, fabric softener composition comprising:

A. from about 2% to about 80% of fabric softener active selected from the group consisting of:

1. fabric softener compound having the formula:



wherein each R substituent is H, or a short chain C₁-C₆ alkyl or hydroxyalkyl group, benzyl, or mixtures thereof;

each m is 2 or 3;

each n is from 1 to about 4;

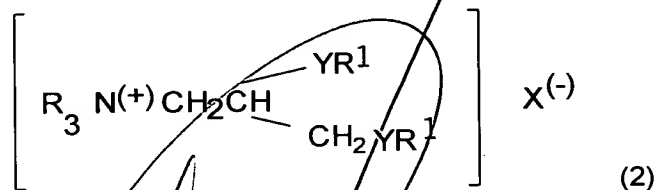
each Y is -O-(O)C-, -(R)N-(O)C-, -C(O)-N(R)-, or -C(O)-O-, but not -OC(O)O-;

each R^1 being a long chain hydrocarbyl, or substituted hydrocarbyl substituent group;

the sum of carbons in each R^1 , or YR^1 when Y is $-O-(O)C-$ or $-(R)N-(O)C-$, is C_6-C_{22} , and when the sum of carbons in one R^1 , or YR^1 , is less than about 12, then the said sum of carbon atoms in the other R^1 , or YR^1 , is at least about 16,

and when R^1 , or YR^1 , is a $C_{16}-C_{20}$ hydrocarbyl or substituted hydrocarbyl substituent group, the Iodine Value of a YR^1 fatty acid which contains this R^1 group is from about 20 to about 140, and when R^1 , or YR^1 , is a C_8-C_{14} , hydrocarbyl, or substituted hydrocarbyl substituent group, the Iodine Value of a fatty acid which contains this R^1 group is about 10 or less;

2. fabric softener compound having the formula:



wherein each Y, R, R^1 , and $X^{(-)}$ have the same meanings as before; and

3. mixtures thereof;

- B. less than about 40% by weight of the composition of principal solvent having a ClogP of from about 0.15 to about 0.64, and which are not symmetrical, said principal solvent optionally comprising levels of solvents selected from the group consisting of: 2,2,4-trimethyl-1,3-pentane diol; the ethoxylate, diethoxylate, or triethoxylate derivatives of 2,2,4-trimethyl-1,3-pentane diol; 2-ethylhexyl-1,3-diol, and mixtures thereof, which are insufficient to provide an aqueous stable composition when used by themselves at said levels;
- C. optionally, an effective level, sufficient to improve clarity, of low molecular weight water soluble solvents selected from the group consisting of: ethanol, isopropanol, propylene glycol, 1,3-propanediol, and propylene carbonate, and mixtures thereof, said water soluble solvents being at a level that will not form clear compositions when used by themselves at that level;
- D. optionally, an effective amount to improve clarity, of water soluble calcium and/or magnesium salt; and
- E. the balance being water.